

Ohio University Bulletin

June 1979



UNDERGRADUATE CATALOG 1979-80

University Administration

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UNDERGRADUATE CATALOG 1979-80

The logo consists of a large, thin-lined oval. Inside the oval, the words "Ohio University Bulletin" are written in a bold, serif font, stacked vertically and centered.

Ohio University Bulletin

The fees, programs, and requirements contained in this bulletin are effective with the 1979 fall quarter.
They are necessarily subject to change without notice at the discretion of Ohio University.

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Academic Calendar, 1979-80

FALL QUARTER, 1979

- Sept. 7, *Fri.* Advising day.
Sept. 8, *Sat.* Class schedule adjustment day; registration day.
Sept. 10, *Mon.* Classes begin.
Sept. 21, *Fri.* Last day to register for fall quarter; last day to register for pass/fail option; last day to add and/or drop courses; last day to process change order without paying fee; last day for partial refund of registration fee; last day for filing application and paying fee for conferral of degree on November 21.
Sept. 24, *Mon.* Courses dropped will not remove fees for hours dropped; courses added will add fees, when applicable; first day for WP/WF (instructor's approval is required to drop a course); late registration begins (\$20 fee assessed on this date).
Oct. 19, *Fri.* Last day for removing incomplete grades incurred during last session enrolled.
Oct. 29 - Nov. 1 . . . Winter quarter preregistration and academic advising.
Nov. 9, *Fri.* Last day to adjust fall quarter class schedule; permission required.
Nov. 12, *Mon.* Veterans Day (offices closed; classes in session).
Nov. 13, *Tues.* Last day to withdraw from fall quarter.
Nov. 14, *Wed.* Last day of classes; degree candidates must have all required work completed.
Nov. 15, *Thurs.* . . . Examinations begin.
Nov. 21, *Wed.* Quarter closing date.

WINTER QUARTER, 1980

- Jan. 2, *Wed.* Advising and orientation day; class schedule adjustment day; registration day.
(2-7 p.m.)
Jan. 3, *Thurs.* Classes begin.
Jan. 16, *Wed.* Last day to register for winter quarter; last day to register for pass/fail option; last day to add and/or drop courses; last day to process change order without paying fee; last day for partial refund of registration fees; last day for filing application and paying fee for conferral of degree on March 15.
Jan. 17, *Thurs.* Courses dropped will not remove fees for hours dropped; courses added will add fees, when applicable; first day for WP/WF (instructor's approval is required to drop a course); late registration begins (\$20 late fee assessed on this date).
Feb. 5-8 Spring quarter preregistration and academic advising.
Feb. 13, *Wed.* Last day for removing incomplete grades incurred during last session enrolled.
Feb. 29, *Fri.* Last day to pay fees for spring quarter (to insure preregistration); last day to adjust winter quarter class schedule (permission required).
Mar. 7, *Fri.* Last day to withdraw from winter quarter.
Mar. 8, *Sat.* Last day of classes; degree candidates must have all required work completed.
Mar. 10, *Mon.* Examinations begin.
Mar. 15, *Sat.* Quarter closing date.

SPRING QUARTER, 1980

- Mar. 24, *Mon.* . . . Advising day; class schedule adjustment day; registration day.
 Mar. 25, *Tues.* . . . Classes begin.
 Apr. 7, *Mon.* . . . Last day to register for spring quarter; last day to register for pass/fail option; last day to add and/or drop courses; last day to process change order without paying fee; last day for partial refund of registration fees; last day for filing application and paying fee for conferral of degree on June 7.
 Apr. 8, *Tues.* . . . Courses dropped will not remove fees for hours dropped; courses added will add fees, when applicable; first day for WP/WF (instructor's approval required to drop a course); late registration begins (\$20 late fee assessed on this date).
 May 1-16 Summer quarter preregistration
 May 5, *Mon.* Last day for removing incomplete grades incurred during last session enrolled.
 May 19-22 Fall quarter preregistration.
 May 23, *Fri.* Last day to adjust spring quarter class schedule; permission required.
 May 26, *Mon.* Memorial Day (offices closed; no classes).
 May 30, *Fri.* Last day to withdraw from spring quarter.
 May 31, *Sat.* Last day of classes.
 June 2, *Mon.* Examinations begin; last day to pay fees for summer quarter (to insure preregistration).
 June 7, *Sat.* Quarter closing date; annual commencement.

SUMMER SESSION, 1980

First Term

- June 16, *Mon.* Registration day; classes begin.
 June 20, *Fri.* Last day to register for first five-week term; last day to register for pass/fail option; last day to add and/or drop courses; last day for partial refund of registration fee; last day for *undergraduate* student to file application and pay fee for conferral of degree on Aug. 23; last day for *graduate* student to file application and pay fee for conferral of degree on August 23.
 June 23, *Mon.* Courses dropped will not remove fees for hours dropped; courses added will add fees, when applicable; first day for WP/WF (instructor's approval required to drop a course).
 July 4, *Fri.* Independence Day (offices closed; no classes).
 July 11, *Fri.* Last day to adjust first summer term class schedule, permission required.
 July 18, *Mon.* Last day of classes; examinations; degree candidates must have all required work completed (including work pending from previous quarters) and submitted to instructor.
 July 19, *Sat.* Term closing date.

Second Term

- July 21, *Mon.* Registration day; classes begin.
 July 25, *Fri.* Last day to register for second five-week term; last day to register for pass/fail option; last day to add and/or drop courses; last day for partial refund of registration fee; last day to process change order without paying fee; last day for *undergraduate* student to file application and pay fee for conferral of degree on Aug. 23 (*graduate* student must have filed on June 20).
 July 28, *Mon.* Courses dropped will not remove fees for hours dropped; courses added will add fees, when applicable; first day for WP/WF (instructor's approval required to drop a course).
 Aug. 15, *Fri.* Last day to adjust second summer term class schedule, permission required.
 Aug. 22, *Fri.* Last day of classes; examinations; degree candidates must have all required work completed (including work pending from previous quarters) and submitted to instructor.
 Aug. 23, *Sat.* Quarter closing date.

Address Inquiries Concerning:

Admissions information and acceptance of credits to the
Office of Admissions, Chubb Hall

Athletics to Intercollegiate Athletics, Convocation Center

Campus tours to the Office of Admissions, Chubb Hall

Continuing education, independent study, workshops, conferences or
institutes to the Extension Division, Tupper Hall

Curricula and undergraduate degree requirements to the
office of the dean of the college in question

Financial aids, scholarships, loans and student employment to the
Office of Student Financial Aids and Scholarships, Chubb Hall

Graduate study to the Office of Graduate Student Services, Wilson Hall

Housing to the Office of University Housing, Chubb Hall

Osteopathic Medicine to the College of
Osteopathic Medicine, Grosvenor Hall

Registration, class schedules and veterans' affairs to the
Office of Registration, Chubb Hall

Transfer students to the Office of Admissions, Chubb Hall

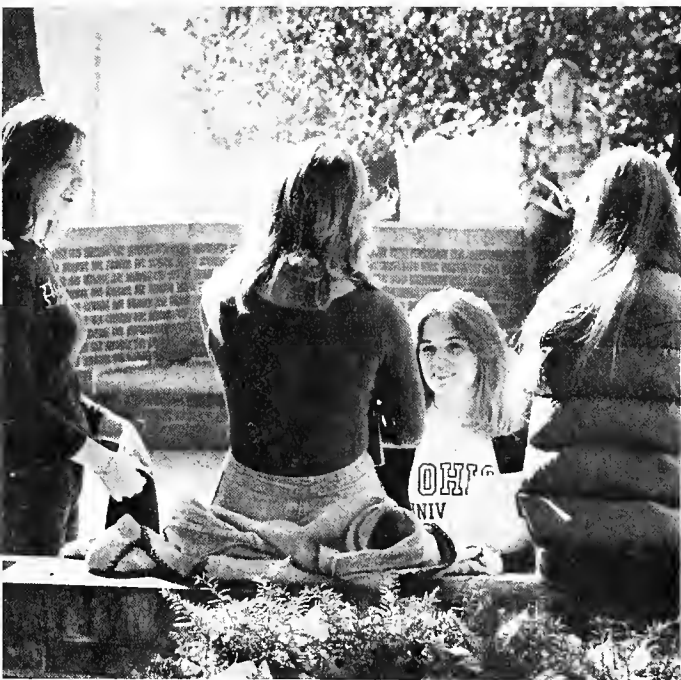
The University switchboard number is 614/594-5511

Ohio University, Athens, Ohio 45701

Profile of Ohio University



PROFILE OF OHIO UNIVERSITY



The charm of tree-lined brick walkways on Ohio University's College Green makes one feel as if one were at a small college rather than a large university. Much of what goes on at Ohio University has this personalized feeling, a unique trait for a school of its size.

The City of Athens, home of the University, is located about 70 miles southeast of Columbus. It's a small city on the banks of the Hocking River, surrounded by small farms on the hills and in the valleys, along with woodlands and state parks. The intellectual and cultural intensity of the University could have no better setting for privacy or meditation when it is needed.

The heritage of Ohio University goes back to the 18th century and the Ordinance of 1787, which included a provision for establishing the school. The University was actually founded in 1804, making it the first institution of higher learning in the old Northwest Territory.

The three oldest buildings on the College Green, red brick structures with wooden shutters, date from the early 19th century and are fine examples of Georgian architecture. One of them, Cutler Hall, in the center of campus, was built in 1816 and is now a National Historic Landmark.

The University provides a wide range of cultural activities for not only the University community but for all of southeastern Ohio. All of the lecturers, poets, singers, dancers, films and theater or music groups appearing on campus are available within walking distance of the residence halls. Many events are free, though some do have nominal charges.

There are 12 state parks and thousands of acres of national forest within 40 miles of the campus. The parks have facilities for swimming, boating, camping, hiking, picnicking and fishing. When one needs to get away, it's possible to walk for hours in the woods without running across dwellings, cars or other people. But if city life is a necessity now and then, Columbus and Cincinnati are within reasonable driving distance.



CAMPUS VISITS

The best way to know what our educational setting is like is to visit our campus. There's no better way to see what the living accommodations are like than to visit one or more of the three residential "greens" that surround the main campus. The greens are separate neighborhoods or communities within the University, adding to the personalized atmosphere of the Athens campus.

An admissions field representative can schedule appointments for you with faculty in your field of interest, or you may wish to write directly to the Office of Admissions, Chubb Hall, Ohio University, Athens, Ohio 45701. Guides are available year round and appointments are preferred but not required. Daily tours start at the Office of Admissions in Chubb Hall at 10 a.m., Monday through Saturday, and at 2 p.m., Monday through Friday. Saturday and Sunday tours begin at 2 p.m. in the lobby of Baker Center. The Office of Admissions is open from 8 a.m. to noon and from 1 p.m. to 5 p.m., Monday through Friday, and from 9 a.m. to noon on Saturday.





THE STUDENT BODY

We can safely say that a typical Ohio University student cannot be found. The one characterization we can apply to the student body is that it is culturally diverse. The exposure to other races, nationalities, religions, and ethnic groups is a basic part of an educational experience. Life in a city usually doesn't provide the diverse day-to-day contact one is likely to have on a campus, with students from all over the United States, as well as from Africa, Asia, Europe, and other parts of the world. Points of view from different cultures, as well as the possibility of lasting personal relationships, will be invaluable.

The special needs of various minority groups have been met on the Ohio University campus. The needs of women have been taken into account in both academic and extracurricular programs at Ohio University. The English, history, and political science departments offer courses geared to women's problems, taught by female and male faculty alike. Many programs and speakers of interest are offered each year.

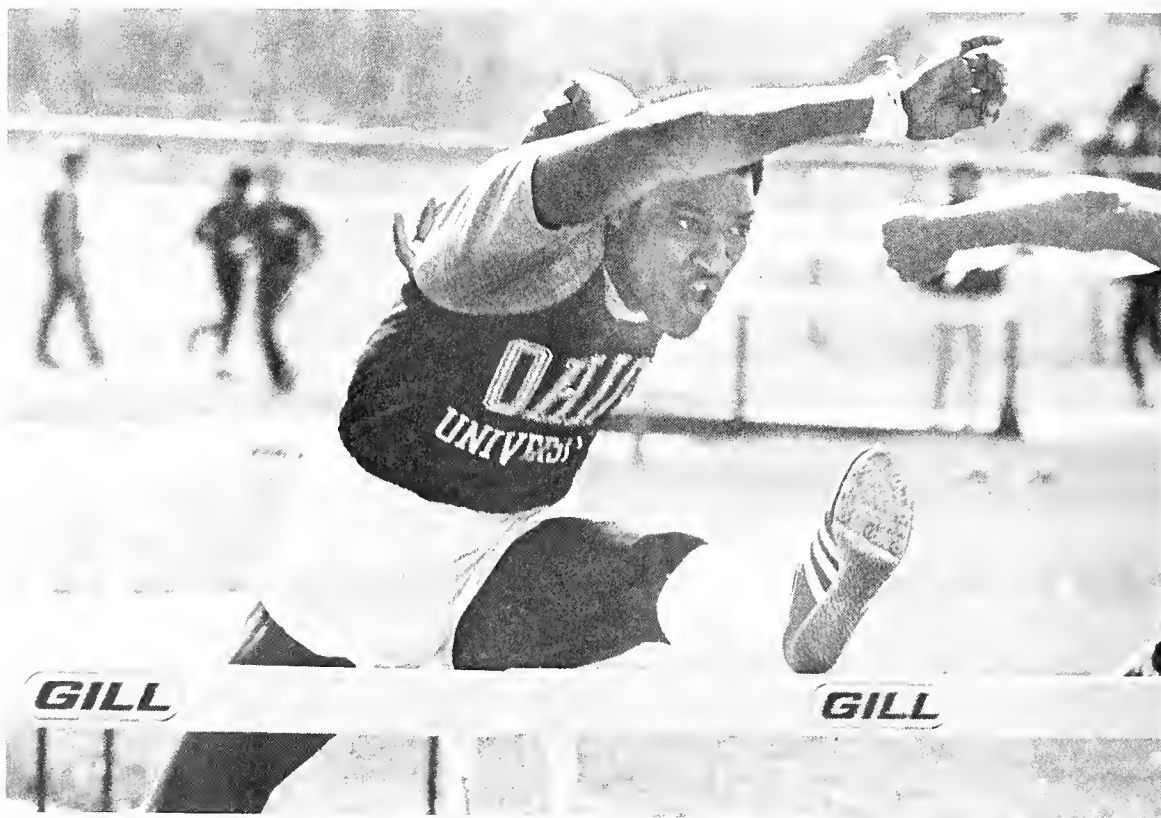
Women's intercollegiate athletics is an expanding program and women are part of the marching band.

Another way in which the University has taken into consideration the needs of a minority group is in the establishment of the Lindley Student Center. Though developed to accommodate the unique interests and needs of black students, the center is not exclusively for blacks. One purpose in creating the center was to give white and international students an opportunity to experience what people in another cultural group enjoy.

A further step along these lines are the International Houses within the residence hall system which allow roughly equal numbers of international students and American students to live together in the same building, sharing each other's cultural heritage.



The Extension Division, through the External Student Program and College Program for the Incarcerated, reaches a number of students across the country and throughout the world, who are pursuing their Ohio University degrees via Independent Study. The external students are nontraditional students engaged in careers or other activities which prevent them from attending the University or one of the regional campuses. They are truly involved in the lifelong learning process. The college program offers programs to the incarcerated.



STUDENT ACTIVITIES

University and student organizations regularly bring speakers and performing artists to campus. Among those who appeared here recently are Hodding Carter III, Nikki Giovanni, Hermoine Gingold, Henry Steele Commager, and John Jakes.

Popular performers have included Billy Joel, Eddie Money, Helen Reddy, and Jimmy Walker.

Approximately 200 student organizations exist on campus. Social fraternities and sororities, honorary, departmental, professional, recreational, volunteer, and special-interest groups are included. Many significant national honor societies have chapters on campus. These include Phi Beta Kappa and Phi Delta Kappa among others. Opportunities to do volunteer work in Athens and surrounding communities are offered by the Student Life Office.





Intercollegiate Athletics

Ohio University belongs to the Mid-American Conference, which includes Miami University, Bowling Green, Toledo, Kent State, Ball State, Northern Illinois, Eastern Michigan, Central Michigan, and Western Michigan. Men's varsity sports include football, basketball, baseball, track, cross country, swimming, wrestling, golf, tennis, and soccer. The OU Bobcats also compete against many out-of-conference teams around the country.

Women's Intercollegiate Athletics is also active with varsity teams in softball, basketball, field hockey, swimming, tennis, volleyball, track and field, lacrosse, and golf. It is a new and expanding program and invites the participation of all women, regardless of major.

Club sports at Ohio University include hockey, lacrosse, and rugby, and athletic facilities include gymnasiums, an indoor ice-skating rink, tennis courts, an indoor swimming pool, and areas for horseshoe pitching and softball. The West Green is the site of the athletic complex, and the multi-million-dollar Convocation Center is the major sports arena as well as concert site in southeastern Ohio.

Recreation

There are many recreational opportunities for men and women in the extensive intramural program. In addition, Baker Center (the University student center) provides facilities for bowling, billiards, and table tennis, as well as rooms for student meetings and campus-wide social and cultural events.

Several movies are shown on campus each week. Some are first-run films of a year or so ago, while others are foreign film classics and experimental movies. The showings are sponsored by campus organizations at reduced prices.

RESIDENCE HALL LIFE

The residence hall areas are divided into four specific areas called "greens." The individual halls are reserved exclusively for a particular type of student (*i.e.*, freshman, upper-class, graduate, etc.), recognizing the special needs of each. University services are provided in all of the halls through the professionally trained live-in staff and consultants from other segments of the University community.

Particular emphasis is placed on meeting the needs of the new freshman student through the Freshman Residential Program. This program is committed to providing those services, skills, and growth opportunities that are so necessary to successfully complete your college career through interaction between faculty, staff, and other students within our University community.

The special interests and talents of the individual student can be enhanced through participation in one or more of the many campus organizations. There is ample opportunity to participate in the government of your hall, green, or the campus. Many of these programs have been and continue to be designed by and for our student residents.

INDIVIDUAL COUNSELING

Counseling at Ohio University is available to help students with definite career goals as well as those who are undecided.

First, admissions counselors can help determine if Ohio University is the appropriate place. Faculty advisors in all departments can help decide if a suitable field has been chosen. If a student does not have a precise career choice, University College counselors can be of assistance. University College offers a bachelor of general studies degree, which allows students to structure their own degree programs, taking a wider variety of courses than would be possible through a major.

Counseling and Psychological Services provides career counseling, occupational information, educational counseling, and personal adjustment problem assistance, on a confidential basis. Individual and/or group counseling and psychological therapy are available.

Counselors in the Career Planning and Placement Office can help evaluate the present job market possibilities in most academic majors. They conduct slide presentations and mini-seminars dealing with how to conduct a job search, how to conduct yourself during interviews, and how to prepare resumes. They also have a series of self-help guides and a guide to self-evaluation in the job market.

Students have access to an extensive library of career information which includes application forms for state, federal, and private employment, graduate school catalogs, and telephone directories of 80 percent of our national metropolitan areas.

Since many summer employers actively recruit on campus, the Career Planning and Placement Office is a source of summer jobs as well. In addition, they will aid in preparing letters of inquiry and resumes and will help in obtaining summer jobs.





ACADEMIC INFORMATION

Students with definite areas of interest are admitted directly to the degree colleges of their choice and assigned to faculty advisors. If the student has decided on a college but not a major, he or she may still enter the college. Undecided students and those who wish to explore several academic areas may be admitted to University College. Except for a University-wide freshman English composition requirement, there are no freshman course requirements common to all students; those with tentative majors refer to the specific requirements outlined under colleges in this catalog.

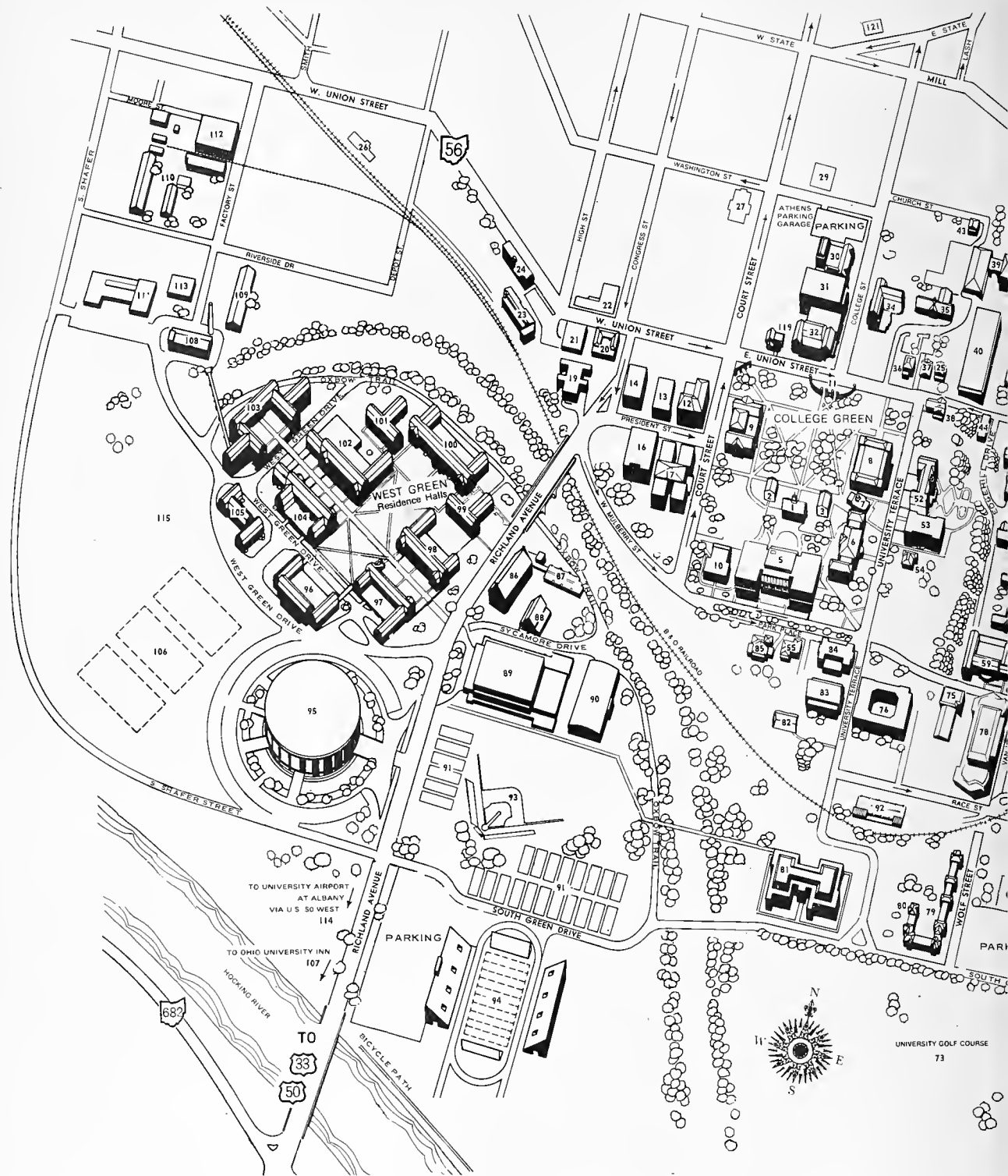
Faculty

The possibilities of personal contact are enhanced by the low student-faculty ratio. Though first-quarter freshmen are likely to be in fairly large classes in survey and introductory courses, class size tends to diminish as one's class rank increases. Upperclassmen will have classes close to the ratio.

Ohio University recognizes teaching as the faculty's primary responsibility.

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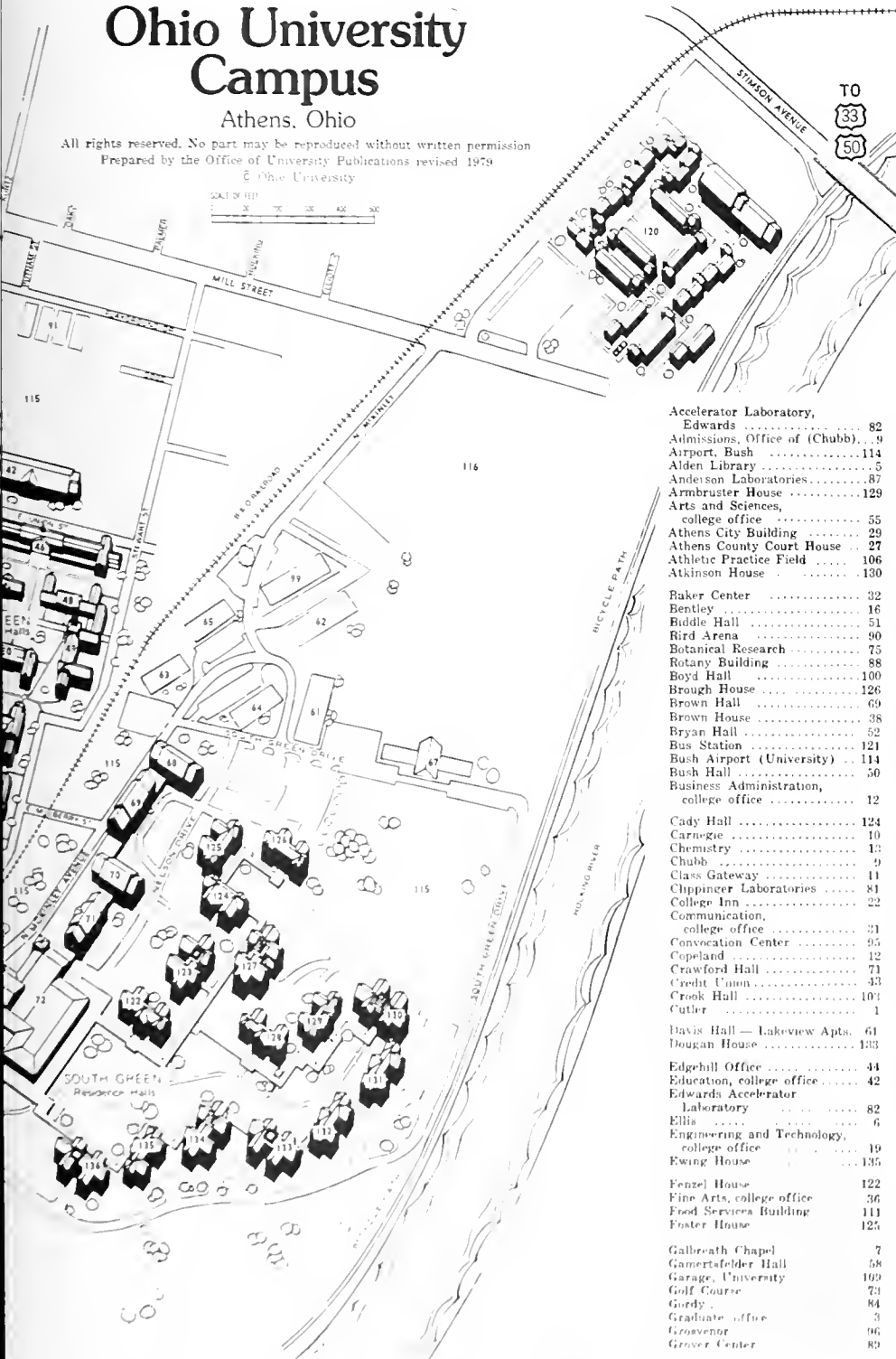
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|------------------------------|--------------------------------|-----------------------------------|--------------------------------------|
| 1 Cutler | 16 Bentley | 31 Radio-Television Communication | 44 Edgehill Offices |
| 2 McGuffey | 17 Lindley | 32 Communication, college office | 45 Lincoln Hall |
| 3 Wilson | 19 Engineering and Technology, | 33 WOU-TV studios | 46 Jefferson Hall |
| 4 Graduate office | 20 Haning | 34 Baker Center | 47 Johnson Hall |
| 5 Library, Alden | 21 Lasher | 35 Voigt Hall | 48 Read Hall |
| 6 Ellis | 22 College Inn | 36 Hudson Health Center | 49 Washington Hall |
| 7 Galbreath Chapel | 23 Heating Substation | 37 Trisolini Gallery | 50 Bush Hall |
| 8 Memorial Auditorium | 24 Industrial Technology | 38 Fine Arts, college office | 51 Biddle Hall |
| 9 Chubb | 25 56 E. Union Street | 39 Jennings House | 52 Bryan Hall |
| 10 University College office | 26 Railroad Station | 40 Brown House | 53 Tupper |
| 11 Carnegie | 27 Athens County Court House | 41 Seigfried | 54 McKee House |
| 12 Class Gateway | 28 Parking Garage, Athens City | 42 Music Building | 55 Arts and Sciences, college office |
| 13 Copeland | 29 Athens City Building | 43 Putnam | 57 Perkins Hall |
| 14 Business Administration, | 30 Kantner | 44 McCracken | 58 Gamertsfelder Hall |
| 15 Chemistry | | 45 Education, college office | 59 Shively Hall |
| 16 Zoology Building | | 46 Credit Union | 60 Tiffin Hall |

Ohio University Campus

Athens, Ohio

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SCALE OF FEET
0 25 50 100 150 200



- 41 Davis Hall — Lakeview Apts.
- 42 Hayes Hall — Lakeview Apts.
- 43 Lakeview Apartments #32
- 44 Lakeview Apartments #34
- 45 Lakeview Apartments #36
- 46 Lakeview Apartments #38
- 47 Lakeview Community Center
- 48 Pickering Hall
- 49 Brown Hall
- 50 Mackinnon Hall
- 51 Crawford Hall
- 52 Nelson Commons
- 53 Golf Course
- 54 Botanical Research
- 55 Scott Quadrangle
- 56 Morton (mathematics)
- 57 Wolf Hall Apartments
- 58 Union Hall Apartments
- 59 Copper Laboratory
- 60 Edwards Accelerator Laboratory
- 61 Natatorium
- 62 Gurdy
- 63 President's Residence
- 64 Porter
- 65 Anderson Laboratories
- 66 Rotary Building
- 67 Golf Course
- 68 Bird Arena
- 69 Tennis Courts
- 70 Zoology Animal Science
- 71 Trautwein Field
- 72 Peden Stadium

- 73 Convocation Center
- 74 Grosvenor Hall
- 75 Osteopathic Medicine college office
- 76 James Hall
- 77 Targent Hall
- 78 Trautwein Hall
- 79 Boyd Hall
- 80 Ryers Hall
- 81 Crook Hall
- 82 Wilson Hall
- 83 Park Hall
- 84 Athletic Practice Field
- 85 Ohio University Inn
- 86 Heating Plant
- 87 University Garage

- 110 Physical Plant
- 111 Food Services Building
- 112 Storeroom No. 2
- 113 Laundry
- 114 Bush Airport (University)
- 115 Recreation Areas
- 116 Intramural Field
- 117 101 Union Street
- 118 Mill Street Apartments
- 119 Bus Station
- 120 Fenzel House
- 121 O'Brien House
- 122 Cady Hall
- 123 Foster House
- 124 Brough House
- 125 Martzoff House

- 128 Weld House
- 129 Armbruster House
- 130 Atkinson House
- 131 Smith House
- 132 True House
- 133 Dougan House
- 134 Wray House
- 135 Ewing House
- 136 Hoover House

- Accelerator Laboratory, Edwards 82
- Admissions, Office of (Chubb) 9
- Airport, Bush 114
- Alden Library 5
- Anderson Laboratories 87
- Armbruster House 129
- Arts and Sciences, college office 55
- Athens City Building 29
- Athens County Court House 27
- Athletic Practice Field 106
- Atkinson House 130
- Baker Center 32
- Bentley 16
- Biddle Hall 51
- Bird Arena 90
- Botanical Research 75
- Rotary Building 88
- Boyd Hall 100
- Brough House 126
- Brown Hall 69
- Brown House 38
- Bryan Hall 52
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- Edgehill Office 44
- Education, college office 42
- Edwards Accelerator Laboratory 82
- Ellis 6
- Engineering and Technology, college office 19
- Ewing House 135
- Fenzel House 122
- Fine Arts, college office 36
- Food Services Building 111
- Foster House 125
- Gallbreath Chapel 7
- Gamertsfelder Hall 58
- Garage, University 109
- Golf Course 73
- Gurdy 84
- Graduate office 3
- Grosvenor 96
- Grover Center 89
- Hanging 20
- Hayes Hall — Lakeview Apts. 42
- Heating Plant 108
- Heating Substation 23
- Hoover House 136
- Hudson Health Center 35
- Industrial Technology 24
- Intramural Field 116
- Irvine Hall 102
- James Hall 97
- Jefferson Hall 46
- Jennings House 37
- Johnson Hall 47
- Kantner 30
- Lakeview Apartments—Davis 61
- Lakeview Apartments—Hayes 62
- Lakeview Apartments #33 63
- Lakeview Apartments #34 64
- Lakeview Apartments #35 65
- Lakeview Apartments #38 66
- Lakeview Community Center 67
- Lasher 21
- Laundry 113
- Library, Alden 5
- Lincoln Hall 45
- Lindley 17
- Mackinnon Hall 70
- Martzoff House 127
- McCracken 42
- McGuffey 2
- McKee House 54
- Memorial Auditorium 8
- Mill Street Apartments 120
- Morton (mathematics) 78
- Music Building 40
- Natorium 83
- Nelson Commons 72
- O'Brien House 123
- Ohio University Inn 107
- Osteopathic Medicine, college office 96
- Parking Garage, Athens City 28
- Parks Hall 105
- Park Place, 35 55
- Peden Stadium 94
- Perkins Hall 57
- Pickering Plant 110
- Pickering Hall 68
- Porter 86
- President's Residence 85
- Putnam 41
- Radio-Television, Communication 31
- Railroad Station 26
- Read Hall 48
- Recreation Areas 115
- Ryers Hall 101
- Sargent Hall 98
- Scott Quadrangle 76
- Seigfried 39
- Shively Hall 59
- Smith House 131
- Storeroom No. 2 112
- Tennis Courts 91
- Tiffin Hall 60
- Trautwein Field 93
- Treadley Hall 99
- Trisolini Gallery 36
- True House 132
- Tupper 53
- Ullom Hall (apartments) 80
- Union Street, 10 E. 119
- Union Street, 56 E. 25
- University College, office 9
- Voigt Hall 34
- Washington Hall 49
- Weld House 128
- Wilson (Graduate office) 3
- Wilson Hall 104
- Wolfe Hall (apartments) 79
- WOLB-TV studios 31
- Wray House 134
- Zoology Animal Science 92
- Zoology Building 14



Library

The seven-story Alden Library houses over a million volumes including periodicals and government documents. Current issues of more than 5,000 periodicals and newspapers are available, plus nearly 600,000 microform units. The building will seat 3,200.

Honor Societies

These national organizations confer membership in recognition of high scholastic attainment and the fulfillment of other constitutional requirements. Some of the societies recognize and encourage the development of a well-rounded personality and leadership and service qualities in addition to academic achievement.

Alpha Kappa Delta, *Sociology*
 Alpha Lambda Delta, *Scholarship*
 Alpha Pi Mu, *Industrial Engineering*
 Angel Flight, *Aerospace Studies*
 Arnold Air Society, *Aerospace Studies*
 Beta Alpha Psi, *Accounting*
 Beta Gamma Sigma, *Business Administration*
 Blue Key, *Scholarship, Activities*
 Delta Phi Alpha, *German*
 Delta Sigma Pi, *Business Administration*
 Delta Sigma Rho-
 Tau Kappa Alpha, *Forensics*
 Epsilon Pi Tau, *Industrial Arts Education*
 Eta Kappa Nu, *Electrical Engineering*
 Kappa Delta Pi, *Education*
 Kappa Kappa Psi, *Band*
 Kappa Tau Alpha, *Journalism*
 Mortar Board, *Scholarship, Activities*
 Omicron Delta Epsilon, *Economics*
 Omicron Delta Kappa, *Scholarship, Activities, Leadership*
 Pershing Rifles, *Military Science*
 Phi Alpha Theta, *History*
 Phi Beta Kappa, *Scholarship*
 Phi Delta Kappa, *Education*
 Phi Eta Sigma, *Scholarship*
 Phi Gamma Nu, *Business*
 Phi Kappa Phi, *Scholarship*
 Phi Mu Alpha, *Music*
 Phi Sigma Iota, *Romance Languages*
 Phi Upsilon Omicron, *Home Economics*
 Pi Gamma Mu, *Government, Social Sciences*
 Pi Kappa Lambda, *Music*
 Pi Mu Epsilon, *Mathematics*
 Sigma Alpha Iota, *Music*
 Sigma Pi Sigma, *Physics*
 Sigma Xi, *Science*
 Society for Professional Journalists/
 Sigma Delta Chi, *Journalism*
 Tau Beta Pi, *Engineering*
 Tau Beta Sigma, *Band*
 Women in Communications, Inc., *Journalism*

Guidelines and General Information



Academic Organization

The College of Arts and Sciences

Preprofessional curricula. Curricula leading to the bachelor of arts and bachelor of science degrees. Preparation for teaching at the secondary level.

Departments:

Botany
Chemistry
Classical Languages
Computer Science
Economics
English Language and Literature
Geography
Geology
History
Linguistics
Mathematics
Modern Languages
 French Portuguese
 German Russian
 Italian Spanish
Philosophy
Physics and Astronomy
Political Science
Psychology
Social Work
 Mental Health Technology
Sociology and Anthropology
Zoology and Microbiology

The College of Business Administration

Curricula leading to the bachelor of business administration degree.

Departments:

Accounting and Quantitative Methods
Administrative Sciences
Economic Education
Management

The College of Communication

Curricula leading to bachelor of science in communication, and bachelor of science in journalism degrees.

Schools:

Interpersonal Communication
Journalism
Radio-Television

The College of Education

Teacher-training curricula leading to the bachelor of science in education degree; supervision of student teaching and other field experience in education. Curricula leading to the bachelor of science in nursing degree.

Schools:

Applied Behavioral Science and
Educational Leadership
Curriculum and Instruction
Nursing

The College of Engineering and Technology

Curricula leading to the bachelor of science in chemical engineering, bachelor of science in civil engineering, bachelor of science in electrical engineering, bachelor of science in industrial and systems engineering, bachelor of science in mechanical engineering and bachelor of science in industrial technology degrees.

Departments:

Chemical
Civil
Electrical
Industrial and Systems
Industrial Technology
 Engineering Graphics
 Industrial Arts (Teaching)
 Industrial Technology
Mechanical

The College of Fine Arts

Curricula leading to the bachelor of fine arts and bachelor of music degrees.

Schools:

Art

- Art Education
- Art History
- Ceramics
- Graphic Design
- Painting
- Photography
- Printmaking
- Sculpture

Dance

- Dance

Music

- Applied Music
- Music Education
- Music History and Literature
- Music Therapy
- Theory and Composition

Theater

- Comprehensive Theater

Department of Comparative Arts
Department of Film

The College of Health and Human Services

Curricula leading to the bachelor of science in hearing and speech sciences and the bachelor of science in home economics degrees and to certification in health, physical education, and recreation programs.

Schools:

- Health, Physical Education, and Recreation
- Hearing and Speech Sciences
- Home Economics

The University College

Basic college for exploratory students at the freshman level. Two-year terminal programs leading to the associate in arts, associate in applied science, associate in applied business, and individualized studies degrees. Four-year program leading to the bachelor of general studies and bachelor of criminal justice degrees. Two- and four-year Reserve Officers Training Corps programs leading to commissions in the U.S. Air Force and the U.S. Army.

Additional Curricula and Programs

Afro-American Studies

Established to develop individual perspectives of the black person's role in modern

society and to train students to function in varied social service fields. Grants the bachelor of science in Afro-American studies degree.

Extension Division

Provides educational opportunities beyond the regular channels of the University by utilizing the resources of the University in nontraditional ways. OPIE provides English-language training for nonnative speakers seeking proficiency for academic study in American colleges or universities.

- Continuing Education

- Independent Study

- Ohio Program of Intensive English (OPIE)

- Workshops, Conferences and Institutes

Honors Tutorial College

Attempts to provide the most flexible and challenging education possible both to the academically gifted and to the creative student through curricula leading to the bachelor's degree.

Interdisciplinary Programs

The Institute of Visual Communication is administered jointly by the colleges of Communication and Fine Arts.

International Studies

Offers a Certificate of African, Asian or Latin American Studies to undergraduates as a supplement to the major.

- African Studies

- Latin American Studies

- Southeast Asian Studies

Regional Campuses

- Belmont County

- Chillicothe

- Lancaster

- Zanesville

- Ironton Branch

- Portsmouth Resident Credit Center

Office of Graduate Student Services

Programs leading to the master of arts, master of business administration, master of education, master of fine arts, master of science and doctor of philosophy degrees.

The College of Osteopathic Medicine

Offers a four-year professional program leading to the degree of doctor of osteopathy.

ADMISSION AND FEES

A special publication for prospective students, a bulletin describing the University, its available programs, its admission procedures and regulations, and its history, can be obtained by writing to the Office of Admissions, Chubb Hall, Ohio University, Athens, Ohio 45701. Applications for admission to study at the undergraduate level may be obtained from the Office of Admissions.

Application materials and additional information about graduate study are available upon request to the Graduate College, Graduate Building, Ohio University, Athens, Ohio 45701.

When to Apply

A person may apply for admission to undergraduate study following the junior year in high school.

New students are admitted to the fall quarter, which opens the second week in September; the winter quarter, which opens the first week in January; the spring quarter, which opens the fourth week in March; or the summer session, with terms which open the third week of June and the fourth week of July.

May 1 is the freshman application deadline for the fall quarter. Applications for other terms are accepted up to one month before classes begin.

Interviews. A personal interview is not required for admission to Ohio University. However, prospective students and their parents are strongly encouraged to visit the campus and discuss plans with an admissions counselor. The Office of Admissions is open for appointments from 8 a.m. to noon and from 1 p.m. to 5 p.m., Monday through Friday, and from 9 a.m. to noon on Saturdays. Tours of the campus are available seven days per week. The Office of Admissions can also arrange at cost on-campus overnight accommodations and dining for prospective students, in addition to appointments with specific departments of the student's interest. Appointments may be made by writing or telephoning the Office of Admissions (614-594-5174).

The Office of Admissions sponsors a series of weekend programs for prospective students. Full details and reservation forms are available from the Office of Admissions.

Application Procedures

The applicant's level of formal education and place of residence determine the procedures he or she follows in applying for admission to the University.

Freshman Applicant. A person who (a) has or soon will receive a secondary school diploma and (b) has not been enrolled for 12 or more credit hours of coursework at a college or university, applies as a freshman applicant.

A freshman may apply for admission in one of two ways: Admission by Exam, or the traditional application procedure.

Admission by Exam allows high school seniors to be considered for admission on the basis of American College Test (ACT) or Scholastic Aptitude Test (SAT) scores. When the ACT or SAT scores are sent to Ohio University, the student will be notified of eligibility for admission if the ACT composite score is 19 or higher, or the SAT combined score is 870 or higher. To confirm acceptance of the admission office, the student submits an Admissions Verification Form and a nonrefundable application fee of \$25 for Athens-campus applicants and \$15 for regional-campus applicants. The traditional application form and high school transcript will not be required. If the test scores are below the indicated levels, the student is sent a traditional application form.

To apply for freshman admission through the traditional process, a student submits a completed application form, the nonrefundable \$25 application fee for Athens-campus applicants (\$15 for regional-campus applicants), ACT or SAT scores, and an official high school transcript (sent directly from the high school to the Office of Admissions). Note that ACT or SAT scores are not required of students who have been out of high school for one year or more.

Notification of admission status is on a rolling basis, beginning in early fall. Students can expect to hear from the Office of Admissions within three weeks after all credentials have been received. Following admission, the student receives a residence hall contract and agreement form. Students should submit the required \$100 residence hall deposit prior to June 1 to hold a place for the fall quarter. Students and parents will also receive an invitation and details about the orientation-registration program for entering students.

The Office of Admissions will waive the \$25 application fee for financially disadvantaged students, upon the written recommendation of the high school guidance counselor. It is expected that such students will qualify for significant amounts of need-based financial aid.

Early Admissions. The University does admit a limited number of students each year who have completed the junior year of high school. Such students are expected to display the necessary intellectual capacity and social

maturity to be successful in college. The student is urged to make arrangements to secure the high school diploma by the beginning of the sophomore year of college study or secure the High School Equivalency Certificate by taking the General Education Development Test. Students interested in early admissions should contact the Office of Admissions.

Transfer Applicant. A person who has been or is registered for 12 or more hours of coursework at a post-secondary institution of education applies as a transfer applicant.

A transfer applicant files (1) an application form accompanied by a \$25 nonrefundable fee and (2) a transcript from each of the post-secondary institutions in which he or she has been registered. Transcripts must be forwarded by the institutions at the request of the applicant.

Space is available in University residence halls for transfer students and housing contracts will be mailed by the Housing Office shortly after admission has been granted.

A student who is applying for transfer to the College of Fine Arts is required to submit a portfolio or audition. Students should make their own arrangements for this by contacting the appropriate school in the College of Fine Arts.

Applicant From Another Country. A citizen of another country applies to the director of admissions if interested in undergraduate study; to the dean of the Graduate College if interested in graduate study.

The applicant files (1) an admissions application; (2) complete official transcripts and pertinent certificates for all secondary and post-secondary work; (3) and such evidence as may be required by the University concerning the applicant's ability to meet the financial obligations of a student in the United States.

All international students and refugees are required to take an English placement test administered by the Ohio Program of Intensive English (OPIE) at the time of initial registration. Exemption or placement in an English as a Second Language (ESL) course will be determined by the results of this examination. If the scores indicate placement in an ESL course, registration for the ESL course is mandatory. Though the Test of English as a Foreign Language (TOEFL) is not required for admission, those applicants who have the TOEFL results should submit them.

Payment of the \$25 nonrefundable application fee should be made with the application, but in some instances may be deferred until registration time.

An official translation must accompany transcripts and certificates which are not in English. *Do not submit documents for which there is only one copy; documents submitted in support of an application cannot be returned to the owner.*

Once admission is granted, the student re-

ceives a residence hall contract and an I-20 form to be used in securing a student visa. The housing contract is to be completed and returned to the University prior to arrival on campus.

Nondegree Student. If an applicant wishes to carry a limited number of courses at the University but is not interested in earning a degree, he or she may apply for admission as a nondegree student.

Such person may be approved for registration upon completion of a nondegree student application. If a transcript of previous coursework or any credential is necessary, the Office of Admissions will notify the student.

The University currently charges a \$15 nonrefundable application fee for nondegree students. This fee is not charged to *summer-only* nondegree students.

Reenrolling Applicant. If a person has previously attended as an undergraduate student but is not currently enrolled at Ohio University as a full-time or part-time student on the Athens and/or regional campuses and wishes to return as an undergraduate student, he or she applies as a reenrolling applicant. Any student who has been dropped from the University or whose records have a hold on them must have this cleared through the appropriate office before reenrollment can be processed.

A reenrolling applicant files with the Office of Admissions (1) an application form for reenrollment and (2) a transcript from each post-secondary institution in which he or she has been registered since last enrolled at Ohio University.

Space is available in University residence halls for reenrolling students and contracts will be mailed by the Housing Office shortly after admission has been granted.

Courses for High School Students. Ohio University offers college courses for students still enrolled in high school. Under this program a high school student may enroll in University courses during the academic year concurrently with high school enrollment or during the summer sessions. To be admitted to this program, the high school student must have the approval of the high school principal or guidance counselor for any study during the regular academic year. Further information about the program may be obtained from the Office of Admissions.

Deferred Admission. Students once admitted may request that their admission to the University be transferred to any future term. Students, both freshmen and transfer, are guaranteed a place for the future term and are free to pursue a period of work, service, or travel before formally coming to campus for study. During this period, students are assured that their future enrollment at the University is secure.

Admission Requirements

A particular pattern of high school subjects is not required for admission to undergraduate study at Ohio University. However, the following distribution of subject matter prepares a student for the pursuit of any curriculum at the University: three years of English, two years of foreign language, two years of social science, two years of a laboratory science, one year of algebra, and one year of plane geometry.

Freshman Applicant. Every resident of Ohio who is a high school graduate or holds the High School Equivalency Certificate is eligible for admission to Ohio University.

Candidates for admission who are not residents of Ohio are encouraged to make application for admission. Out-of-state applicants can expect favorable action on their admission if they rank in the upper half of their graduating class and if they present an ACT composite score of 19 or higher, or SAT scores that total 870 or higher.

Students should note that restricted and selective admissions procedures are in effect for the following undergraduate programs: Athletic Training, Dance, Honors Tutorial College, Mental Health Technology, Music, and Radio-Television.

Transfer Applicant. A student wishing to transfer from a regionally accredited college or university is required to have a cumulative grade-point average of 2.0 (on a scale where A is 4, B is 3, C is 2, and so forth) on all work attempted. A student wishing to transfer from an institution which does not have regional accreditation may be required to have a grade-point average substantially above a 2.0. In addition to the average, students wishing to enter the College of Fine Arts must meet the audition or portfolio requirement. Students wishing to enter the School of Nursing have special requirements. See the School of Nursing under the *College of Education* section of this catalog. Transfer students to the School of Radio-Television must have completed 48 quarter hours (32 semester hours) with an earned grade-point average of 2.5 to be eligible for admission.

Transfer Credit Evaluation and Recording of Transfer Credit. All credit earned at a regionally accredited college or university with a grade of C— or higher is accepted as transfer credit and can be used to satisfy degree requirements in the same manner as credit earned at Ohio University. All grades for transfer credit are converted to a T grade symbol on the student's permanent academic record. The number of transferable quarter hours of credit is recorded on the academic record, but no quality points are recorded. Transfer students, therefore, enter Ohio University with no grade-point average on the Ohio University academic records.

Normally, courses in which a D grade was earned are not acceptable for transfer. Such a course will transfer, however, if 1) it was a specific prerequisite (as stated in the previous school's catalog) for a later course in the same department, and 2) a grade of C— or better was earned in that later course. Students meriting credit under this stipulation must contact the Office of Administration, Chubb Hall, to receive credit for this coursework.

A student who has attended an institution which does not have regional accreditation may be required to have a grade-point average substantially above a 2.0 average and may have only part or in some cases none of his or her previously earned credit accepted. Any credit earned at such an institution is only accepted provisionally, to be validated by the student's performance in Ohio University.

The Office of Admissions will send a tentative transfer credit evaluation report shortly after the student has been granted admission to the University.

Evaluation of Technical College Credits. A student who has completed an associate degree from a Regents-approved Ohio college will have accepted for transfer credit all the general education coursework for which the degree was awarded if completed with a grade of C— or better. These credits will be accepted by all colleges of Ohio University toward meeting the minimum total credits required for a baccalaureate degree. The applicability of these transferred credits toward meeting the requirements of the program the prospective student wishes to enter can be determined in advance on request to the Office of Admissions. Requests should specify in which program the student is interested, and should be accompanied by a transcript of record.

In addition to policy described above, Ohio University has worked out certain credit evaluations with Ohio community and technical colleges which allow the technical college graduate to earn a bachelor's degree in approximately two years provided he or she continues in the corresponding academic area at the University. For a detailed description of these programs, contact the Office of Admissions.

Armed Forces Credit. Some courses provided by the Armed Forces are the equivalent of college courses and transfer credit may be obtained by presenting certificates or a diploma describing the training received. A *Guide* published by the American Council on Education is used to determine what credit might be granted. Blanket credit is not granted for military service.

Advanced Placement and Proficiency Examination Credit. Any entering student who has taken an examination provided by the Advanced Placement (AP) Program of the College Entrance Examination Board may, by achieving an appropriate score (generally three

or higher), receive Ohio University credit and placement.

Ohio University also participates in the College Level Examination Program (CLEP) sponsored by the College Entrance Examination Board. Subject to approval by the appropriate department in each case, the University will allow credit for satisfactory performance on the CLEP subject-matter examinations, provided that the examinations are taken prior to formal enrollment at Ohio University. The University does not award any credit for scores achieved on the CLEP General Examinations.

Detailed information about both the AP and CLEP programs is available from high school guidance offices; from Ohio University; or by writing the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540.

Entrance Medical Requirements

Entering students are not required to submit preenrollment physical examinations. Required of each new student is a tuberculosis skin test administered by the University Health Service at the time of initial registration to the University. All positive reactors must receive chest x-rays by the Health Service annually while at the University.

A major medical insurance plan, designed to supplement the care provided by the University's Health Center, is mandatory for each full-time student, unless he or she submits evidence of comparable coverage under a private plan.

Ohio Residency

It is the responsibility of the student to report a change of address and/or residency from an Ohio resident to a non-Ohio resident at the Office of Student Records. If the student's residency has changed to an Ohio resident, he or she must file a residency petition with the Office of Admissions. No change of residency can be made until the residency petition has been approved by the University examiner. Questions concerning residency should be directed to the University examiner in the Office of Admissions.

The residency rules described below were adopted by the Ohio Board of Regents on December 29, 1977, pursuant to Chapter 119. of the Revised Code, and under the authority conferred upon the Ohio Board of Regents by Section 3333.1 of the Revised Code. These rules are subject to change without notice by the Ohio Board of Regents or the Ohio General Assembly.

A. Intent and Authority

1. It is the intent of the Ohio Board of Regents in promulgating this rule to exclude from treatment as residents, as that term is applied here, those persons who are present in the State of Ohio primarily for the purpose of receiving the

benefit of a state-supported education while insuring that the same benefit is conferred on all bona fide domiciliaries of this state whose permanent residence and legal citizenship is in Ohio, and whose actual source of financial support is subject to Ohio taxation.

2. This rule is adopted pursuant to Chapter 119. of the Revised Code, and under the authority conferred upon the Ohio Board of Regents by Section 3333.1 of the Revised Code.

B. For Purposes of This Rule:

1. A "resident of Ohio for all other legal purposes" shall mean any person who maintains a twelve-month place or places of residence in Ohio, who is qualified as a resident to vote in Ohio and receive state welfare benefits, and who may be subjected to tax liability under Section 5747.02 of the revised code; provided such person has not, within the time prescribed by this rule, declared himself or herself to be or allowed himself or herself to remain a resident of any other state or nation for any of these or other purposes.
2. "Financial support" as used in this rule, shall not include grants, scholarships and awards from persons or entities which are not related to the recipient.
3. An "institution of higher education" as used in this rule shall mean any university, community college, technical institute or college, general and technical college, medical college or private medical or dental college which receives a direct subsidy from the State of Ohio.

C. General Residency for Subsidy and Tuition Surcharge Purposes

The following persons shall be classified as residents of the State of Ohio for subsidy and tuition surcharge purposes:

1. Dependent students, at least one of whose parents or legal guardian has been a resident of the State of Ohio for all other legal purposes for twelve consecutive months or more immediately preceding the enrollment of such student in an institution of higher education.
2. Persons who have resided in Ohio for all other legal purposes for at least twelve consecutive months immediately preceding their enrollment in an institution of higher education and who are not receiving, and have not directly or indirectly received in the preceding twelve consecutive months, financial support from persons or entities who are not residents of Ohio for all other legal purposes.
3. Any alien holding an immigration visa or classified as a political refugee shall be considered a resident of the State of

Ohio for state subsidy and tuition surcharge purposes in the same manner as any other student.

4. No person holding a student or other temporary visa shall be eligible for Ohio residency for these purposes.
5. A dependent person classified as a resident of Ohio for these purposes shall continue to be considered a resident during continuous full-time enrollment and until his or her completion of any one academic degree program.
6. In determining residency of a dependent student, removal of the student's parents or legal guardian from Ohio shall not, during a period of twelve months following such removal, constitute relinquishment of Ohio residency status otherwise established under paragraph (C) (1) of this rule.
7. Any person once classified as a non-resident, upon the completion of twelve consecutive months of residency in Ohio for all other legal purposes, must apply to the institution he or she attends for reclassification as a resident of Ohio for these purposes if such person in fact wants to be reclassified as a resident. Should such person present clear and convincing proof that no part of his or her financial support is or in the preceding twelve consecutive months has been provided directly or indirectly by persons or entities who are not residents of Ohio for all other legal purposes, such person shall be reclassified as a resident.
Evidentiary determinations under this rule shall be made by the institution which may require, among other things, the submission of information regarding the sources of a student's actual financial support to that end.
8. Any reclassification of a person who was once classified as a non-resident for these purposes shall have prospective application only from the date of such reclassification.
9. A person who is transferred by his or her employer beyond the territorial limits of the fifty states of the United States and the District of Columbia while a resident of Ohio for all other legal purposes and his or her dependents shall be considered residents of Ohio for these purposes as long as Ohio remains the state of such person's domicile.
10. A person who has been employed as a migrant worker in the State of Ohio and his or her dependents shall be considered a resident for these purposes provided such person has worked in Ohio at least four months during each of the three years preceding the proposed enrollment.

D. Procedures

Institutions of higher education charged with reporting student enrollment to the Ohio Board of Regents for state subsidy purposes and assessing the tuition surcharge shall provide individual students with a fair and adequate opportunity to present proof of their Ohio residency for purposes of this rule. Such institution may require the submission of affidavits and other documentary evidence which it may deem necessary to a full and complete determination under this rule.

New Student Orientation and Registration

Ohio University conducts initial academic programs for new fall quarter students during the summer months.

Fall quarter freshmen and transfer students are expected to visit the campus during July or August for a two-day session of orientation, academic advisement, and course registration. Parents are encouraged to attend these sessions where they will have an opportunity to discuss many of the concerns they may have about the college experience.

Orientation and registration programs for new students entering the University will be conducted immediately prior to the beginning of each quarter.

Detailed information concerning student orientation and registration is sent to all admitted students.

Registration Fees

Undergraduate registration fees are payable at the Cashier's Office* prior to the opening of classes and in accordance with instructions issued with registration materials. Checks and money orders should be made payable to Ohio University in the exact amount of the fees. It is important that the student retain all fee receipts.

Payment of fees owed is a prerequisite to official enrollment, and all students should have sufficient funds to cover these expenses. Post-dated checks will not be accepted. Checks issued to the University and not paid on presentation to the bank will automatically cancel any receipts given and result in the assessment of penalties.

Ohio University reserves the right to make, without prior notice, any fee adjustments that may become necessary.

*Regional campus students pay fees at the campus where they are registered. For graduate fees see the Graduate Bulletin.

Refund of Fees

The official University policy on the refund of registration fees is: (1) Official withdrawal from the University prior to the first day of

classes entitles the student to a refund of 100 percent. (2) Withdrawal from the University *during* the first 14 days of the quarter (see the academic calendar) entitles the student to a refund of 80 percent. (3) Withdrawal from the University *after* the first 14 days of classes entitles the student to no refund. (4) Any student withdrawing from the University while owing the University money is considered to be indebted to the University for that amount.

Students dropping hours by change order prior to or during the first 14 days of the quarter, when such changes result in a reduction of fees, are entitled to receive a 100 percent refund of the reduction. Changes made after the 14th day of the quarter will result in no refund.

Refunds are issued 30 days after the date of withdrawal from the University.

Questions about the above items should be referred to the Office of Registration.

Late Registration and Late Payment Policy

Unless in the judgment of the registrar a student's registration has been delayed due to the convenience of the University, a \$20 *late registration fee* will be assessed each late-registering student beginning with the 15th calendar day of each quarter.

A *late payment fee* would normally not be applicable since payment is a prerequisite to registration. However, in addition to other service charges a \$20 *late payment fee* will be assessed by the Bursar's Office on all checks returned by a bank after the payment deadline has passed.

Monthly Payment Plan

A monthly payment plan is available to full-time students (undergraduate over ten hours; graduate over eight hours) on the Athens campus who pay the entire amount for either their registration fee, including the non-resident surcharge if applicable, and/or residence hall fees (room only, board only, or both). The plan, which equalizes the quarter's fees into three payments the first of which is due approximately two months before the opening of the quarter, may be chosen for one or all of the fees. Students electing the monthly payment plan will pay an additional administrative charge which is \$9 per year for each area chosen. The \$9 equates to \$3 per quarter.

Students who receive assistance from the Student Financial Aids and Scholarships Office or the Graduate College are not included in the monthly payment plan area for which they are specifically receiving assistance. For example, students receiving scholarships are not eligible for the registration (tuition) plan. However, they are eligible for the residence hall plan. In addition, the residence hall plans are available only to those students who have signed housing contracts.

The refund procedure logic is on the basis that all fees for the quarter have been paid. The refundable amount will be adjusted to recognize any unpaid monthly payments for the current quarter.

Contact the Cashier's Office, Chubb Hall, to obtain an application for the monthly payment plan.

SCHEDULE OF UNDERGRADUATE FEES*

Instructional Fees

Resident of Ohio Nonresident

Comprehensive fee for load of 11 to 20 hours inclusive

| | | | |
|---|-------|----------|----------|
| Athens campus | ..... | \$379.00 | \$849.00 |
| Regional campuses | ... | 301.00 | 771.00 |
| Ironton Branch and Portsmouth Resident Credit Center | ..... | 261.00 | 291.00 |

Includes the instruction fee — the general fee, and other special services (such as health, library, and testing) and course and laboratory fees. Excludes fees for instruction as in music and bowling, which are listed in the quarterly class schedule.

Extra fee for each quarter hour in excess of 20 hours

| | | | |
|---|-------|----------|----------|
| Athens campus | ..... | \$ 18.00 | \$ 42.00 |
| Regional campuses | ... | 15.00 | 39.00 |
| Ironton Branch and Portsmouth Resident Credit Center | ..... | 15.00 | 15.00 |

Fee for each hour for load of 1 to 10 hours, inclusive

| | | | |
|---|-------|----------|----------|
| Athens campus | ..... | \$ 37.00 | \$ 84.00 |
| Regional campuses | ... | 29.00 | 76.00 |
| Ironton Branch and Portsmouth Resident Credit Center | ..... | 26.00 | 28.00 |

Auditors pay fees in full as above.

Extension Division Classes:

| | | | |
|------------|-------|----------|----------|
| off campus | ..... | \$ 26.00 | \$ 69.00 |
| on campus | ..... | 32.00 | 74.00 |

Extension Division — Independent Study

| | | | |
|---|-------|----------|--|
| Independent Study courses, each quarter hour | ..... | \$ 14.50 | |
| Independent Study projects, each quarter hour | ..... | 17.50 | |
| Course Credit by Examination, each quarter hour | ..... | 7.50 | |
| External Student status | ..... | 30.00 | |
| External Student program for the incarcerated, comprehensive fee, per quarter | ..... | 417.00 | |

Miscellaneous Fees

| | |
|--|---------|
| Admission application filing fee (nonreturnable) | \$25.00 |
| Special student application fee (nonreturnable) | 15.00 |
| Reclassification fee from special student to regular student status ... | 10.00 |
| Change of class schedule | 4.00 |
| Duplicate official forms, fee receipts, grade report, etc. | 2.00 |
| Course Credit by Examination, each quarter hour | 7.50 |

*Subject to change at the discretion of the University.

| | |
|---------------------------------------|---------|
| Graduate application for degree | |
| Associate | \$ 7.50 |
| Bachelor's | 15.00 |
| Master's | 20.00 |
| Doctoral | 50.00 |
| Reapplication | 5.00 |
| Health insurance, annual premium | 42.75 |
| Late registration and/or payment | 20.00 |
| Transcript of record | 2.00 |
| Placement registration fee | 12.00 |

REGISTRATION AND PROCEDURES

REGISTRATION

Details concerning the registration procedure are printed each quarter in the Schedule of Classes and may be obtained at the Office of Registration in advance of each registration.

In accordance with regulations a student currently in attendance at the University may preregister for a subsequent quarter.

New and former undergraduate students will receive registration information by mail with other orientation material.

Student Load

All regular full-time students, including those on probation, will usually carry a normal load of 16-20 quarter hours.

Students who schedule fewer than 11 credit hours (12 for financial aid recipients) will be considered part-time for the effective quarter.

Auditing and Visiting Privilege

Courses to be audited must be marked "audit" on registration forms. Questions about auditing should be referred to the student's college office. Changes from audit to credit or from credit to audit are made by change order during the period when changes are permitted.

With the permission of the instructor, a full-time student has the privilege of visiting classes in which he or she is not registered.

Classification of Students

A student who has been admitted to the University and who expects to pursue a degree course is given rank according to the number of quarter hours earned: freshman, 0-44; sophomore, 45-89; junior, 90-134; and senior 135 and over.

Graduate Study As A Senior

A student who is within nine hours of completing all requirements for the bachelor's degree at Ohio University may take courses carrying graduate credit, provided the requirements for admission are otherwise met and the written recommendation of the dean of the college, the graduate chairman of the major department, and the approval of the dean of the Graduate College are secured. This privilege also may be extended to a well-qualified senior of another university who has nine or fewer hours to complete for the bachelor's degree. Request for this privilege should be made in advance of registration through the Graduate College Office.

CHANGE PROCEDURES

Change of Class Schedule

A student who finds it necessary to add a course, withdraw from a course, or correct his or her registration secures a change order in the office of the dean of the college in which he or she is enrolled. The student then consults with the designated departmental representative or the instructor of each course being dropped or added. The departmental representative or the instructor approves the change by initialing the form. After securing the instructor's approval, the student presents the change-order form for the dean's approval. A fee of \$4 is charged for each change order processed after the 14th day of classes.

For any student who withdraws from a course after the 14th day of the quarter the instructor will assign a grade of WP or WF, indicating that the student was performing work considered passing (WP) or failing (WF) at the time of withdrawal. This grade will be awarded at the end of the quarter, at which time the names of all withdrawn students will appear on the grade sheet.

A course may be added only during the first 14 calendar days of the quarter. For information concerning fee changes see the regulations under *Fees* in this catalog.

A course may be dropped any time during the first 14 calendar days of the quarter with no academic penalty. After the 14th day a course may not be dropped except for extenuating circumstances and with explicit approval of the instructor. However, any changes must occur not later than the Friday prior to the last full

week of regularly scheduled classes for the quarter.

Students dropping hours by change order prior to or during the first 14 days of the quarter, when such changes result in a reduction of fees, are entitled to receive a 100 percent refund of the reduction. Changes made after the 14th day of the quarter will result in no refund.

A student denied permission by an instructor to withdraw from a course may appeal the decision to the chairman of the instructor's department, then, if necessary, to the dean of the student's college.

Change of Student Personal Information

All changes of student personal data must be reported to the Office of Registration, Chubb Hall. Forms are available in the Office of Registration or the office of the student's dean. Changes of name, social security number, and/or birth date must have a document verifying the correct information at the time the request is made.

Forms for reporting a change of home or Athens address are available in the Office of Registration. *The student is responsible for any University office communication sent to him or her at the last address reported to the Office of Registration, Chubb Hall.*

Change of College

Application for transfer from one degree college to another is made in the office of the dean of the college in which the student is enrolled. The change must be signed by the two deans concerned and be presented to the Office of Registration, Chubb Hall, within the first 14 days of each quarter or the student remains enrolled in the initial college. A student must fulfill degree requirements for the college to which he or she transfers. The student's degree requirements are defined by the catalog in effect at the time of transfer.

WITHDRAWAL FROM THE UNIVERSITY

Application for withdrawal is made on a withdrawal form obtained in the office of the dean of the college in which the student is enrolled. When the request for the withdrawal has been approved by the dean of the college, the withdrawal is referred to the Office of Registration, Chubb Hall, which grants an official withdrawal after it has been determined that all obligations to the University have been met. A refund of registration fees is made according to regulations under the section Refund of Fees.

TRANSCRIPTS

A copy of a student's record is issued by the Office of Student Records, Chubb Hall, as an official transcript. Transcripts are made only upon request. Each copy of the transcript costs \$2. The transcript carries a statement of good standing except when a student has been dropped from the University because of poor scholarship, nonpayment of fees, or unsatisfactory conduct. A student on scholastic probation has such status shown on the transcript.

POLICY ON REPLACEMENT DIPLOMA

A notarized affidavit, attesting that the original diploma has been lost or destroyed, must be filed with the Office of Student Records at Ohio University.

Each affidavit requesting a replacement diploma must be accompanied by a \$10 fee.

The replacement diploma will carry current titles and signatures of University officers. It will be the same size and quality as the diploma being issued currently at the time of request.

CREDIT AND GRADING

Credit and Final Examinations

All credit is designated in quarter hours. Normally, a quarter hour is the equivalent of one recitation or two or more laboratory periods a week throughout a quarter. The final examinations are held during the last week of a session and all students are required to take the examinations according to the schedule issued by the Scheduling Office, *i.e.*, if a final examination is required for that course.

The final examination for honors work must be taken before the opening of the regular examination period. For information concerning honors work, refer to Departmental Honors Program.

Grading System and Reports

At the close of a session or upon the completion of a course an instructor reports a letter grade indicating the quality of a student's work in the course. Once grades are submitted they are final and cannot be changed unless evidence of error can be presented. *Grades cannot be changed by arranging to do additional work.* Points are assigned for each quarter hour of credit earned, according to the following grading system:

| | | | |
|----|------|----|------|
| A | 4.00 | C | 2.00 |
| A- | 3.67 | C- | 1.67 |
| B+ | 3.33 | D+ | 1.33 |
| B | 3.00 | D | 1.00 |
| B- | 2.67 | D- | 0.67 |
| C+ | 2.33 | F | 0.00 |

CR . . . In addition to the letter grades a report of credit may be made. This is credit without a grade. Credit is added to the hours earned, but not added to the hours attempted for point-hour calculation. Credit is to be used for certain courses and only by prior approval of the Curriculum Council or in certain special cases by the dean of the college.

PR . . . Progress. The PR is awarded only in graduate courses and undergraduate courses specifically designated by the department with the approval of the college dean. It indicates the student has made progress in the course in which he or she is registered but has not finished the work required for releasing a letter grade. May extend longer than one quarter. Not calculated in the grade point average.

I . . . The student has not finished the work required to receive a grade. It is not counted in the grade point average. Unless it is changed within the first six weeks of the next quarter enrolled, the I converts to F (an extension of time may be requested to run to the end of the quarter).

When the student applies for graduation any Incomplete grades on his or her record will be calculated as F grades for the purpose of determining eligibility for graduation. If the I is not completed within six weeks after graduation, the grade will convert permanently to F.

WP/WF . . . Designation for a course dropped after the 14th day of the quarter.

The above four grades do not count in the grade point average.

Other reports which will appear on the student's grade slip but which are not assigned by a faculty member:

AU . . . Audit. A student registering for *Audit* is expected to attend classes consistent with the instructor's attendance policy. Failure to do so will result in removal of the audit from the student's record. If this action results in a change of fees, the official University policy on refund of registration fees will be applied.

I* . . . Administrative Incomplete. Given to a student who initially registers for a course but does not officially drop that course by change order. The I* is given by the Office of Student Records and may be removed in accordance with rules established by the student's college. The I* may be the result of a faculty member assigning a grade for which the course is not coded as legitimate. Until removed, an administrative incomplete will be computed as an F in the calculation of the grade point average.

NR . . . No Report. The instructor left the grade blank on the grade report. Grades were turned in too late to be processed.

P . . . Conversion of grades A through D—under the pass/fail option. The fail (F) grade

counts in the grade-point average the same as any F grade.

A form properly submitted by the student through his or her college office for a course for which graduation credit is not allowed will appear on the transcript with double asterisks (**) on the same line as the course and an explanation at the bottom of the transcript stating:

**Not counted toward graduation. Hrs. & Pts. not included in totals for scholastic average.

A form properly submitted by the student through his or her college office for a repeated course will appear on the transcript in the same manner. Only the final hours attempted and/or earned and points for this course will appear in the transcript totals.

Repeating a Course

When a course is repeated, both grades continue to be used to determine the cumulative point-hour ratio until the student applies for and completes a repeated-course form, available in the office of the dean. A course may not be repeated for the purpose of raising the grade-point average after completion of higher-level coursework in the same subject area. Note also that courses taken at Ohio University and repeated at another school do not result in deduction of the first grade earned.

Pass/Fail Option

The pass/fail option is designed to encourage students to explore areas of study which they might otherwise hesitate to enter.

To be eligible for the pass/fail option, a student must have earned an average of 2.5 or better for his or her latest quarter of full-time enrollment, or have an accumulative average of 2.0 or better. First-quarter freshmen will be considered as having met the above requirement.

The pass/fail option is subject to the following restrictions: (1) Students may complete up to 20 quarter hours under this option; (2) A student may take only one course per quarter by pass/fail; and (3) No course taken pass/fail may be used to fulfill any graduation requirement (college, school, or departmental) other than the total hours requirement. For example, courses taken pass/fail cannot be used to satisfy distribution requirements, 90-hour requirements of courses above a specified level, a specific course established as a requirement for majors in a departmental major program, and all other such requirements. (Note: Restriction (3) does not apply to pass/fail courses taken prior to September, 1976.)

Point-Hour Ratio (Grade Point Average)

The basis for determining scholastic standing is the point-hour ratio or grade point average (g.p.a.). It is obtained by dividing the total

number of points earned by the total number of quarter hours of credit attempted.

Transfer Credit Evaluation and Recording of Transfer Credit

For details of credit evaluation for all prospective students, see the *Admissions* section of this catalog.

Evaluation of Technical College Credits

For details of credit evaluation for all prospective students, see the *Admissions* section of this catalog.

Continuing Education Unit

Participants in designated noncredit courses may be awarded continuing education units (CEUs). The CEU is a measurement (one unit per ten class contact hours) nationally recognized by business, industry, and professional organizations for an individual's efforts toward professional growth. Permanent records of CEUs earned are kept in the Extension Division Office which, upon request, will provide a copy of an individual's record.

Deans' List

The Deans' List, compiled at the close of each quarter, includes the names of all students who have point-hour ratios of at least 3.3 on a minimum of 16 quarter hours of credit earned, including 12 hours attempted for letter grades.

Probation and Drop Regulations

Each student's record is reviewed at the close of each quarter. If a student's cumulative record shows a grade-point deficiency, he or she is subject to being placed on probation or dropped from the University. The point-hour ratio is obtained by dividing the total number of grade points earned by the total hours attempted. The entire record, including each grade in each course attempted, is used to determine the student's probation status.

The extent to which a student's record is below a point-hour ratio of 2.0 (C) determines whether he or she will be dropped, placed on probation, or continued on probation. The deficiency points are determined by multiplying the total number of hours attempted by two and subtracting from this all points earned. For example, if a student has attempted 40 hours and has earned 65 points the deficiency is 15: 40×2.0 (the point-hour ratio required for graduation) equals 80; 80 minus 65 points earned equals 15.

Probation

A student who has enrolled in fewer than 45 hours is placed on probation when the grade-point deficiency is greater than 12 grade points. The student who has enrolled in 45 or more

hours is placed on probation if he or she has less than a 2.0 average (one or more deficiency points).

Probation Removal

Probation is removed if a student on probation who has enrolled in fewer than 45 hours reduces the grade-point deficiency to 12 or fewer grade points. For the student who has enrolled in 45 or more hours probation is removed when the point deficiency is reduced to zero.

Continuance on Probation

A student who has been on probation for one quarter may be continued on probation for one additional quarter if the grade-point deficiency has not increased and he or she is not eligible to be removed from probation. However, at the close of this additional quarter the student must be eligible to be removed from probation or he or she will be dropped from the University.

Dropped From The University

Any student whose grade-point deficiency at the close of any quarter exceeds the number of hours attempted in that quarter will be dropped from the University. In other words, if a student receives a g.p.a. of less than 1.0 in any one quarter, he or she will be dropped. A student may be dropped even though he or she has not previously been on probation. A student on probation is dropped from the University if the point-grade deficiency has increased and he or she is not eligible to be removed from probation.

Normally, a petition for reinstatement will not be considered until 12 months after the student was dropped. The student presents the petition to the dean of his or her college. Only extraordinary circumstances will prompt the committee to consider a petition for second reinstatement, and then not until 24 months after the student was dropped.

A student who is dropped from the University may not enroll for courses on the Athens campus, on a regional campus, or in correspondence or extension courses conducted by Ohio University until reinstated. Work taken at other institutions while on drop status at Ohio University will not be accepted by Ohio University without prior approval of the dean of the student's college.

Plagiarism

Plagiarism can take many forms, but in essence it involves the presentation of some other person's work as if it were the work of the presenter. This kind of deception has no place in the academic world.

Plagiarism, a form of academic misconduct, will not be tolerated within the Ohio University community. Whenever plagiarism takes place,

as determined by the judgment of a faculty member, or by the procedures of the Office of University Judiciaries, serious action will be taken against the student committing plagiarism. Such action may be failure of work undertaken; failure of the course; censure by the faculty member, department or college involved; and/or formal action by the Office of University Judiciaries, which can include suspension or dismissal from the University.

Whenever formal action is taken with respect to plagiarism, the student(s) involved, the faculty member, the department chairman, and the student's dean should be notified of the action.

It is appropriate for each faculty member to point out each quarter, among the several introductory items of business related to the course, the nature of plagiarism and the range of punishments pertaining to it.

When a student is accused and judged guilty of plagiarism, and wishes to appeal the judgment, he or she may follow the usual appeal route through chairman and dean. If satisfaction is not achieved through this process, the appeal may be taken to the Student Complaint Board.

Class Attendance Policy

Each instructor will state his or her policy during the first week of classes each quarter.

Instructor's Attendance Reports

A student who misses the first two class meetings of a course for which he or she is enrolled may be dropped from the course. Official notice of this action will be sent to the student by the Office of Registration in Chubb Hall. *A student who has missed the first two class meetings should verify his or her status with the instructor.*

Instructors are encouraged to report to the office of the dean of the appropriate college the names of students who are frequently absent. This enables the staff to investigate such cases and to determine what assistance these students may need in dealing with problems outside the classroom.

Notification of Causes of Absence

Under certain conditions a notification of absence enabling a student to make up work missed may be obtained from the appropriate office as indicated below. The following rules apply.

A. When a student has participated in an authorized University activity, such as a departmental trip, music or debate activity, ROTC function, or athletic trip, the notification should be issued by the sponsoring office.

B. A student absent from class due to hospitalization as an inpatient in O'Bleness Memorial Hospital is NOT issued a notification of class absence. However, the student may request that the instructors call the Health

Center for verification of the fact of the student's hospitalization on certain days.

C. A student who receives medical or dental care as an outpatient at the Hudson Health Center will not be issued a notification of class absence. However, the student may request the instructors to call the Health Center (the attending physician, if possible) for verification of receipt of outpatient care on a given day. It is assumed that students visiting the Health Center as outpatients will do so without missing classes whenever possible.

D. A student who receives medical care from health care personnel or facilities other than the University Medical Services is expected to present the instructors of classes necessarily missed for this reason with verification of the date(s) such care was received from the attending physician or dentist.

GRADUATION REQUIREMENTS

Application

A student who is a candidate for graduation must make application in the Office of Student Records and pay the application fee no later than the deadline listed in the academic calendar of the quarter in which graduation is planned. This application initiates the process which informs the student's college to check fulfillment of degree requirements. The process culminates with the reflection of the college, major, degree, and the date of granting degree on the student's permanent (academic) record. The application fee for a bachelor's degree is \$15 and for an associate degree, \$7.50.

If an applicant fails to meet the requirements for graduation, he or she may reapply for the quarter in which completion of the requirements is planned. The fee for reapplication is \$5.

Students entering fall quarter 1977 or thereafter for a bachelor's degree must have a minimum of 192 quarter hours of credit with all college requirements met. The associate degree requires a minimum of 96 quarter hours.

Scholastic Average

To meet the minimum standards for graduation from Ohio University, a student must have a point-hour ratio of 2.0 (C) on all hours attempted. The need for this 2.0 average applies to the student's total record and to the total major or equivalent as determined within the college.

Major Areas of Study

Requirements for majors and fields of concentration are outlined by the individual col-

leges. A transfer student who has completed most or all of the courses in a major area of study at another institution may be required to satisfy the departments concerned that Ohio University academic standards in that area have been met.

Developmental Course Credit

No more than eight credit hours earned in developmental courses may be applied toward the total hours required for graduation. Developmental courses shall be so designated and publicized by the curricular committees of the appropriate academic units.

Residence Requirements for Graduation

Bachelor's Degree

Residence credit is defined as credit earned by regular enrollment at Ohio University on the Athens campus, on any of the regional campuses, by any of the approved programs abroad, by any approved student teaching, by independent study and Course Credit by Examination arranged through Ohio University's Independent Study Program, by degree credit earned through continuing education, or by any combination of these methods.

The minimum requirement for students who complete fewer than 96 quarter hours at Ohio University is the final year (three quarters) with 48 hours of credit. For a student who completes 96 or more quarter hours of Ohio University credit, the final quarter shall be in residence as defined by the residence requirement above.

If a student begins graduate study before completion of all requirements for a bachelor's degree, residence for the bachelor's degree will be reduced by as many weeks as credit hours of graduate work completed. The number of weeks subtracted will be credited toward the residence requirement for a master's degree if the credit is acceptable in the program approved for graduate work toward a degree. Residence used for meeting requirements for one or more bachelor's degrees may not also be used for meeting the residence requirements for a master's degree.

The residence regulations apply to a student who has been approved for graduation *in absentia* and is completing the last year in an accredited institution, except that the regulations apply to residence before the student leaves the University.

A student should make certain particular residence requirements of his or her college have also been met.

Associate Degree

A student seeking an associate degree must earn at least 30 quarter hours of residence credit at Ohio University. Moreover, students who complete fewer than 60 quarter hours of Ohio University credit must earn at least eight

of the final 15 hours in residence as defined below. If the degree applicant has not earned Ohio University credit within two years of the quarter in which application is made, he or she must earn Ohio University credit during the quarter in which the associate degree is earned.

Residence credit is defined as credit earned by regular enrollment at any Ohio University campus, by any of the approved programs abroad, by any approved student teaching, by Independent Study through Correspondence or Course Credit by Examination arranged through Ohio University's Extension Division, by degree credit earned through continuing education, or by any combination of these.

Problems related to the residence requirements should be discussed with the student's academic dean. In certain cases exceptions to the residence requirements may be made.

In Absentia

In absentia permission is obtained in writing from the dean of the college in which the student is enrolled. To obtain the bachelor's degree a student who has been approved for the senior-in-absentia privilege in an approved professional school must have completed a full year's work in the professional school of the quality prescribed for the bachelor's degree at Ohio University, and be eligible for advancement without condition to the second year. The official transcript from the school must be submitted to the Office of Admissions, Chubb Hall, Ohio University, before the degree conferring date.

The *in absentia* privilege does not apply to graduate degree programs.

Time Limit

The time limit for fulfilling the published requirements for a degree is five years from the date of first registration in the University. Requirements instituted subsequent to the student's initial registration are applicable at the discretion of the University. The following additional regulations apply:

1. A student fulfills the requirements in effect at the time he or she first registered in the University.
2. If major or equivalent is changed the student fulfills the major requirements in effect at the time he or she makes the change.

A transfer student is governed by the same regulations, except that the number of years in which to complete the degree requirements is reduced by the number of years of transferred work.

Graduation with Honors

A candidate for the bachelor's degree who is graduated with a point-hour ratio of 3.0 up to 3.50 on all hours attempted is distinguished on the commencement program by the notation

"with honor," with 3.50 or above, by the notation "with high honor."

A candidate who has successfully completed a program of study with honors is distinguished in the commencement program and on the diploma with the appropriate notation.

Granting of Degrees and Commencement

Degrees are granted at the close of each quarter. The annual commencement is held at the close of the spring quarter. Candidates for spring quarter graduation and recipients of degrees at the preceding summer, fall, and winter quarters are invited to attend the exercises.

A Second Bachelor's Degree

A student who desires two bachelor's degrees may meet the requirements for them either simultaneously or successively:

(a) If a student desires to complete the requirements for the two degrees conferred on the same date, he or she must meet the particular subject requirements for both degrees; earn a minimum of 48 approved quarter hours beyond the minimum required for one degree with the requisite scholastic average, both on Ohio University work and credit that has been transferred from another school, and must have completed a total of 13 quarters of college work or its equivalent, with a minimum of five quarters of residence, or the equivalent, at Ohio University. When the two degrees are offered by different colleges, the student must register in both colleges and meet the college residency requirement the quarter in which the degrees are to be conferred.

(b) If a student has met the requirements for two degrees as indicated above and desires to have the degrees conferred in successive quarters, he or she may do so without further credit or residence. For example, one degree may be conferred at the end of one quarter and application made for the second degree in a subsequent quarter.

(c) If a student desires to take a second bachelor's degree after receiving the first, he or she must complete the subject requirements for the second bachelor's degree, earn a minimum of 48 acceptable quarter hours beyond the requirements for the first degree with the requisite scholastic average, and meet the residency requirement in the college offering the second degree. (See individual college requirements.)

Course Credit by Examination

Course Credit by Examination is designed for students who wish to demonstrate proficiency in a particular Ohio University course. A student may take up to six months after enrolling for credit by examination to prepare for the examination. An information sheet describing the nature of the examination is used by the student as a guide in preparing for it.

Regular Ohio University credit is granted for a grade of D- or better with the pass/fail option available in accordance with the University regulations for this option. A grade of F is recorded and in order for a student to retake a course failed in this program, special permission must be obtained. The grade received is used in computing the point-hour ratio of Ohio University students, but enrollment in course credit by examination does not affect the quarterly course load.

Ohio University students must obtain permission from their academic deans to enroll in the program. Others are not required to have permission, but if they plan to transfer the credit to another institution they should ascertain in advance if it will be accepted.

Registration and arrangements for the examinations are made in the Office of Independent Study, Tupper Hall 302. The fee is \$7.50 per quarter hour. Complete information and a listing of the courses regularly available can be obtained at this office.

English Composition Requirement

Ohio University believes the ability to communicate effectively through the written word has been and continues to be one of the hallmarks of a well-educated person. In order to help our students achieve this goal, the University has instituted an English composition requirement for all students. The main features are a required freshman composition course and an advanced composition course. Competency tests are administered at both levels to exempt well-prepared students.

The specific provisions are (1) competency testing at the beginning of the freshman year; (2) placement in the appropriate 100-level course or exemption from the freshman composition requirement if the test indicates no need for such a course; (3) a second competency test is administered at the junior level to determine which students should be exempted from the advanced composition requirement; and (4) students not passing the competency test at this level are required to take advanced composition in the junior or senior year.

The requirements faced by transfer students are determined by point of entry and the number of credit hours transferred.

SERVICES FOR STUDENTS

Career Planning and Placement

The Office of Career Planning and Placement, located in Lindley Hall on South Court Street, is designed to assist all students and alumni who seek career or graduate school information.

The Office of Career Planning and Placement assists students in obtaining information regarding the types of careers possible with

various subject concentrations, the preparation required for given careers, and the relative opportunities for individuals in various fields for the years ahead.

Traditionally, students have not established contact with career planning and placement offices until their senior year. Since it is now more important than ever to give careful thought and consideration to the planning of one's career, students are encouraged to consult the Office of Career Planning and Placement, the chairpersons of academic departments, or one of the academic deans during their first year of matriculation. Some of the critical functions of the Office of Career Planning and Placement include assisting the student in assessing capabilities, interests, and skills; exploring opportunities associated with acquired knowledge; preparation for the interview and job search process (i.e., resume preparation, interviewing skills).

The Career Planning and Placement Office serves as a liaison between alumni, students, various school systems, business, and industries. Representatives from these areas are invited to the campus for the purpose of sharing information and interviewing prospective employees. **ONLY EQUAL OPPORTUNITY EMPLOYERS ARE PERMITTED TO RECRUIT ON CAMPUS.** Upon request and the payment of a nominal fee, a credential process is also maintained for each student. This includes the student's academic record and all personal references, all of which are made available to prospective employers with the consent of the student.

Counseling and Psychological Services

Counseling and Psychological Services provides confidential professional individual or group counseling and/or psychological therapy to undergraduate and graduate students with educational, career, and personal problems.

Students having educational difficulties such as not performing up to their potential may receive help in clarifying and resolving their concerns.

Students who are uncertain about their educational and career objectives can obtain help in appraising their abilities, interests, performances, and personal characteristics so that they may identify more appropriate and satisfying directions.

Students with personal problems of any kind (emotional, social, marital) may receive assistance in better understanding and resolving their problems.

An occupational library containing information about a wide variety of occupations is available without an appointment.

Workshops on a variety of topics, designed to enhance the educational, social, and personal growth of students, are offered each

quarter.

A student wishing an appointment about educational, career, or personal concerns should contact the receptionist on the third floor of Hudson Health Center (use the side entrance next to Voigt Hall) between 8 a.m. and 5 p.m., Monday through Friday. Phone: 594-6081.

Housing Office

The main function of the University Housing Office is to assist students in acquiring housing on the Ohio University campus.

The Housing Office is responsible for all residence hall and room assignments for students residing in University-owned residence halls and the office initiates all room and board charges.

The Housing Office also supervises the assignment and maintenance of the married student apartment complexes.

Housing Regulations

All freshmen and sophomore students with fewer than 90 earned credit hours must reside in University-owned housing and participate in the associated mandatory board plan, subject to the exemptions listed below. Status will be determined on the basis of quarter hour credits earned at the conclusion of the immediately preceding spring quarter for continuing students. A student who is close to achieving 90 hours of credit at the conclusion of the spring quarter may petition to delay satisfaction of the required hours until the end of the summer session. Students requesting this extension who fail to earn a certified 90 hours at the conclusion of the summer session will be required to comply with the housing regulation. For transfer and reenrolling students the number of hours earned will be subject to certification by the director of admissions. For relocating students the number of hours earned will be subject to certification by the director of registration. Failure of a student, subject to the parietal rule, to comply with this condition of registration is cause for denial or cancellation of registration.

The exemptions are: (Must be requested in writing)

1. Students with fewer than 90 earned credit hours enrolled for not more than eight quarter hour credits during the fall, winter, or spring quarters and for fewer than three hours during a summer session.
2. Married students with fewer than 90 earned credit hours residing with their spouses within commuting distance of the University.
3. Students with fewer than 90 earned credit hours residing with parents or guardians whose permanent residence is within commuting distance of the Uni-

versity.

4. Students with 45 or more earned credit hours living in recognized fraternity or sorority houses.
5. Student veterans with fewer than 90 earned credit hours who have 18 months or more of active military service.

NOTE: All students with 90 or more hours of credit earned are permitted to reside in housing which coincides with their individual needs. It should be noted that the University bears no responsibility for the living conditions or problems arising therein to either the homeowner or the student resident.

Special Students. All special students must comply with the above regulations.

Insurance, Major Medical

A major medical insurance plan designed to supplement the care provided by the University Medical Services is mandatory for every student registered for more than six hours of credit unless the student submits evidence of coverage by comparable private insurance.

The plan provides protection against major medical and surgical expenses regardless of where the student may be. In addition to the medical and surgical benefits payable under the terms of the group plan contract, an accidental death payment is part of the insurance policy.

To assist married students, a major medical-surgical expense protection insurance plan for dependents is available through the University comprehensive group medical insurance.

Intercollegiate Athletics

Men's Intercollegiate Athletics

Ohio University is a charter member of the Mid-American Conference which is composed of ten prominent universities of the Midwest. The other members are Miami, Toledo, Western Michigan, Kent, Bowling Green, Central Michigan, Eastern Michigan, Northern Illinois, and Ball State.

In the administration, financing, organization, and management of the intercollegiate athletic program, the University adheres to the policies of the National Collegiate Athletic Association and the Mid-American Conference. All students are encouraged and welcomed to try out for any team of their choice. Ohio University teams go into competition thoroughly coached and trained. This training under excellent leadership makes it a privilege and an honor to participate on athletic teams at the University.

Medical attention for athletic squads is under the direction of a team physician. He has at his disposal the personnel and facilities of a modern university hospital and is aided by a

qualified and experienced training staff.

The University's teams for men are organized in the following sports: football, basketball, baseball, track, wrestling, cross country, golf, soccer, tennis, and swimming. Any student interested in the athletic grant-in-aid program or any student wishing to try out for a team should contact the head coach of the sport(s) directly.

Women's Intercollegiate Athletics

The Ohio University women's intercollegiate athletic program is a charter member of the Association for Intercollegiate Athletics for Women. Ohio University is also a member of the Ohio and Midwest Associations for Intercollegiate Athletics for Women, which sponsor regional and national qualifying tournaments respectively.

Medical attention for athletic squads is under the direction of a team physician. He has at his disposal the personnel and facilities of a modern university hospital and is aided by a qualified and experienced trainer.

The University's teams for women are organized in the following sports: field hockey, volleyball, swimming, basketball, lacrosse, softball, tennis, track and cross country. Any student interested in the athletic grant-in-aid program or any student wishing to try out for a team should contact the head coach of the sport(s) directly.

International Students

Admission. Information concerning the admission of undergraduate foreign students may be obtained from the Director of Admissions, Chubb Hall. Graduate students should contact the Graduate College Office, Graduate Building.

Financial Aid. There is a very limited amount of financial aid available for undergraduate foreign students. In no case does this cover more than a portion of tuition or other expenses. Students entering from overseas are eligible to apply for awards based on academic promise; students already enrolled at Ohio University may apply for the same awards, and in addition may request special aid in cases of demonstrated need. Students may apply for these scholarships and grants-in-aid by contacting the International Student Services Office.

International House. Two centrally located residence halls offer special programs for roughly equal numbers of foreign and American students. The emphasis is on cultural interaction and mutual understanding. Here, also, is found the International Center with its kitchen and lounge. A large kitchen and dining

facility, and the offices of the International Student Association are nearby. For more information, contact the director of housing.

Associations. The International Student Association is the major organization of foreign students at Ohio University. It represents nearly a dozen national, religious, and cultural groups and, with their cooperation, funds and presents a number of special events throughout the year. International Week is one of these.

Athens Friends of International Students runs a hospitality program and an International Wives' Club and, on a modest scale, matches foreign students with American families in Athens, Ohio, and the vicinity. These visits are short, and may be only for a dinner or an afternoon excursion, but sometimes long friendships develop from this brief opportunity to gain insights into American home life.

The International Wives' Club brings together the wives of foreign students on campus and interested wives of faculty and community people. It serves as a forum for ideas and information which they find useful to share, and offers a productive and easy way in which to participate in University life.

Ohio Program in Intensive English. The OPIE administers English proficiency examinations to all new foreign students and provides intensive language instruction for those needing it. See descriptions of courses and program elsewhere in this catalog.

Services. The International Student Advisor is available for consultation on all matters of interest to foreign students, including immigration, financial, and personal problems. All new students from abroad must report to the advisor's office upon arrival.

Intramural and Club Sports and Recreation Activities

The Ohio University Intramural Sports Department offers a wide range of activities (approximately 33 different sports) for men and women, involving individual, dual, and team competition. A coed program for dual and team competition is also offered in a majority of activities. A limited open recreational program is available when time and facilities permit. Some of the major intramural activities offered are football, basketball, broomball, volleyball, inertube water polo, softball, tennis, golf, and racquetball.

The Ohio University Club Sports Department serves as the administrative unit for all recognized sports clubs on campus. Any group of students, faculty, and staff who wish to organize for the purposes of practicing and competing, or individuals interested in a particular club, should contact the department. Currently there are 22 recognized clubs.

For further information contact the De-

partment of Intramural and Club Sports in Grover Center.

Libraries

The main library facility on the Athens campus is in the Vernon Roger Alden Library. The seven-story, air-conditioned modern library building has a shelving capacity of 1.4 million volumes and seating accommodation for 3,200 readers. Alden Library is open seven days a week for a total of 105 hours.

Collections. In March, 1979, the collections of the libraries passed the one-million volume mark, including periodical sets and government documents but excluding over 600,000 microform units. More than 5,100 current journals and newspapers are being subscribed. Besides the main collection which is arranged by the Library of Congress Classification System, there are separate subject and special collections: the Archives and Special Collections, Children's Collection, Government Documents, the Health Sciences Library, Maps Collection, Microforms and Non-prints Collection, and Southeast Asia Collection. In separate buildings are the Music/Dance Library, Slide Library, and a number of departmental collections in several scientific disciplines. Each of the regional campuses also has a well-established library facility.

As one of 100 members of the Center for Research Libraries, Alden Library offers students and faculty access to an additional three million volumes of research materials and over 30,000 scientific and technical journals.

Services. To make the library's collections more accessible to its user, general tours and instructional lecture tours are offered to classes and groups upon request. Subject bibliographers' services are available to give assistance with problems in specific academic disciplines.

On-line information retrieval systems, including MEDLINE, are available. Through the OCLC nation-wide shared cataloging and interlibrary loan network library collections across the country are now easily accessible. The library is a part of the age of resource sharing to better serve the academic community.

Learning Resources Center. The Learning Resources Center, also housed in the main library, provides audio/visual facilities and services to the entire faculty.

Student Development Center. The Student Development Center is located on the first floor of the library. See description of services elsewhere in this section.

Medical Services

The Unified Health Services facilities are

located in the Hudson Health Center. They include Medical Services, Health Education Services, Counseling and Psychological Services, and Environmental Health and Safety Services. Medical Services include an outpatient clinic and complete ancillary services, including x-ray, clinical laboratory, physical therapy, pharmacy, and a dental clinic.

The Medical Services staff includes full-time physicians; a dentist; a pharmacist; a coordinator of health education services; registered nurses; and registered laboratory, x-ray, and other allied personnel.

A continuous health record is maintained on each student, beginning with the report of medical history obtained at the time of the student's first visit to the Hudson Health Center for evaluation and/or treatment of any medical condition. A tuberculosis skin test administered by the University Medical Services is required at the time of the student's arrival on the campus.

Motor Vehicles

University policy and regulations state that no student shall drive, operate, park, or otherwise use a motor vehicle on the land and property of the University without first registering said motor vehicle with the director of security. This regulation includes student-owned vehicles; vehicles belonging to parents or relatives (including wives or husbands); and vehicles belonging to friends, rental agencies, and dealers.

Upon registration the student will be given a decal which must be attached to the vehicle as described in the brochure issued with the decal.

Failure to register a motor vehicle as provided by the regulations will result in a fine and/or disciplinary action.

While two- and three-wheeled motor vehicles are not permitted in the residence hall areas of the University, they are permitted on certain designated streets on the campus. They may be parked only in areas specifically designated as motorcycle parking.

Ombudsman of the University

The ombudsman's primary responsibility is to assist students and other members of the University community in expediting settlement of complaints and grievances. Using broad investigatory powers and direct access to all University officials of instruction and administration, the ombudsman may intervene in the bureaucratic process on behalf of individuals when that process unnecessarily or unfairly impinges upon them.

Those with problems should try the usual channels first but, if all else fails, the ombudsman may prove an invaluable aid. The ombudsman's office is in McGuffey Hall.

Residence Life

The Residence Life Program is responsible

for advising and coordinating 6,000 graduate and undergraduate students in 39 residence halls located on the East, South and West greens. The primary focus of the Department of Residence Life is to support the educational mission of the University via personal and interpersonal developmental programming involving academic, cultural, social, and recreational growth experiences. The residence halls are directed by staff members who participate in orientation programs as well as continual in-service training programs conducted by the Office of Residence Life, located in Chubb Hall, Room 050.

The staff of most residence halls consists of a resident director and graduate or undergraduate assistants. In addition, there is a resident assistant for each group of approximately 31 students; with the exception of the Freshman Program which consists of one resident assistant to approximately every 24 students. These staff members are available for advice, assistance in emergencies, and general assistance with individual problems.

The residence staff works with the students to develop a constructive program of self-government, recreation, and cultural experience. Also, they participate in orientation programs and serve as advisors to hall organizations and committees. As representatives of the director of residence life, residence staff interpret University and administrative procedures and policies to students, and serve as referral agents for other University services.

Speech and Hearing Services

The Speech and Hearing Clinic offers diagnostic and remedial services without charge to University students. University faculty and staff are charged for services at a nominal rate, which is less than the charges to the general public. Clinical services are available to children and adults of the community and surrounding area for a nominal charge. All types of speech and/or hearing disorders in all age ranges are evaluated and receive therapy. The audiological division is equipped and staffed to provide complete hearing diagnostic services, to determine the need for and recommend special kinds of hearing aids, and to provide therapy for all types of hearing loss.

A program for language and speech development operates in the on-campus clinic five days a week, and four regional county clinics see over 150 clients every Saturday. Undergraduate and graduate students prepare for clinical practice in public schools, special schools, private clinics, hospital and rehabilitation center clinics, or, for university teaching and research. Persons wishing counseling about the training program, information about the service program, or help with a speech or hearing problem should inquire at the clinic office in Lindley Hall between 8 a.m. and 5 p.m., Monday through Friday.

Student Development Center

The Student Development Center helps beginning students develop basic skills and attitudes necessary to successfully master college-level work. Individualized instruction is available upon request in reading, writing, and study skills. Credit-bearing courses in reading and study skills are also offered to freshmen. See the "Courses of Instruction" section for course content descriptions. The center additionally provides tutoring help sessions in many freshman-level courses. Students may attend help sessions as frequently as desired to ask questions, to clarify points of confusion.

Project CAP, or the College Adjustment Program, is a special program for selected freshmen entering Ohio University. Sponsored by the Student Development Center, its purpose is to help new students adjust to college and to improve their chances to succeed. Project CAP is a comprehensive program of basic skills instruction and supportive counseling. Students are selected and invited to participate in Project CAP based on high school records and aptitude test results.

For further information about Project CAP or other Student Development Center programs, contact the center on the first floor of Alden Library or call 594-6058.

Student Financial Aids and Scholarships

The Ohio University Office of Student Financial Aids and Scholarships will assist students who need help in financing their college educations and recognize students for their academic achievements and special talents. Financial assistance is not intended to replace the financial responsibility of the parents and students; rather it is intended to supplement that which can be provided by the family.

Insofar as funds are available, the University attempts to meet the demonstrated financial need of all eligible applicants through a program consisting of scholarships, grants, loans, and part-time employment. Additional assistance can be applied for through federal, state, and private agencies.

Basis for Financial Assistance Awards

The assistance offered by the Office of Student Financial Aids and Scholarships is based on the assumption that the total of (1) parents' financial contribution, (2) student's summer financial earnings, (3) available financial assistance from Ohio University, and (4) financial assistance from other sources, does not exceed the student's cost of attendance during an academic year at Ohio University.

Example (incoming freshman):

| | |
|---|---------|
| Cost-of-attendance budget | |
| (in-state) | \$3,495 |
| Parents' contribution | - 355 |
| Summer savings | - 500 |
| Amount needed | 2,640 |
| Ohio Instructional Grant | 360 |
| Basic Educational Opportunity Grant | 480 |
| Ohio University Aid* | 1,800 |
| Total assistance awarded | 2,640 |

* Can consist of College Work-Study Program, National Direct Student Loan, Supplemental Educational Opportunity Grant and/or scholarship.

If you are awarded financial assistance from other sources (example: outside scholarship or outside employment during the school year), you must notify the Office of Student Financial Aids and Scholarships immediately as to the source and amount of such assistance. If your total resources do exceed your cost of attendance at any time during the academic year and part of your existing financial assistance involves the use of federal campus-based funds (SEOG, NDSL, or CW-SP), the Office of Student Financial Aids and Scholarships is required to delete whatever amount of assistance is determined to have exceeded your cost of attendance.

Information concerning these types of aid is available from the Director of Student Financial Aids and Scholarships, Room A, Chubb Hall, Ohio University, Athens, Ohio 45701 (Phone: 614/594-5471).

Scholarships

Scholarships are awarded on the basis of an applicant's demonstrated excellence in academic and talent areas. Faculty from each academic college are involved in the evaluation and selection process. Financial need is not always a prerequisite.

Manasseh Cutler Freshman Scholarships. These one-year scholarships are valued at \$500. They are awarded to high school seniors and transfer students who have earned fewer than 45 hours. Criteria for selection may include but is not limited to class rank, grade average, ACT/SAT test scores, recommendations, activities, interviews, and audition.

Trustee Distinguished Freshman Scholarships. These scholarships are limited in number and are valued at \$1,200. Students selected for this award must have demonstrated a high degree of excellence in several areas — academics, talent, leadership, citizenship, etc.

Dean's Achievement Scholarships. Valued at \$500, these scholarships are one-year awards for upperclass students (with more than 45 hours). Students are selected on the basis of criteria established by faculty in their academic colleges. Students must reapply and compete annually for renewal.

Special Talent Awards. A student with exceptional talent in art, athletics, creative writing, dance, debate, forensics, music, radio-TV, or theater may receive a Manasseh Cutler Scholarship (freshman) or a Dean's Achievement Scholarship (upperclass) for that talent. Interested students should contact the respective department for additional information.

Corporate Scholarships. Available to students majoring in specific academic areas (engineering, business, sciences) on the basis of high academic achievement, these awards range from \$300 to \$2,000 annually. Eligibility for these awards normally includes demonstrated financial need.

Endowed Scholarships. Available to students with high academic achievement and demonstrated financial need, these endowed scholarships are made available from contributions of alumni and friends of Ohio University and are usually restricted by geographic locality or major. Awards range from \$150 to \$2,000 per year.

National Merit Scholarships. These scholarships are awarded to National Merit finalists who indicate Ohio University as their first choice institution. National Merit Scholarships are four-year awards ranging in value from \$500 to \$1,500.

Foreign Student Scholarships. Each year a number of scholarships are awarded to international students. These awards are based upon past academic performance and financial need. Interested students should write directly to the International Student Services Office.

Reserve Officers Training Corps Scholarships. Four-year, three-year, two-year, and one-year scholarships are available on a competitive basis for qualified students participating in the Air Force (Aerospace Studies) or the Army (Military Science) program. These scholarships pay cost of tuition, fees, books, and laboratory expenses. In addition, recipients receive a subsistence allowance at the rate of \$100 per month for the period the scholarship is in effect. Interested students should contact the Department of Aerospace Studies or the Department of Military Science.

Grants

(Unlike loans, grants do not have to be repaid.)

Basic Educational Opportunity Grant Program (BEOG). A federal aid program designed to provide financial assistance to those who need it to attend post-high school educational institutions. It is estimated that during the 1979-80 academic year the awards will range between \$50 and \$1,800.

In order to apply for BEOG, you must file a Financial Aid Form (FAF) with the College Scholarship Service; a separate BEOG application need not be completed. An FAF may be obtained by contacting the guidance counselor at your local high school or the Director, Student Financial Aids and Scholarships, at Ohio University.

Supplemental Educational Opportunity Grants (SEOG). Normally awarded to undergraduate students who come from historically low-income families or demonstrate need. Recipients are selected from students who have submitted financial aid applications. Grants range from \$200 to \$1,000 per academic year depending upon the amount of financial assistance that the parents are expected to contribute to their son's or daughter's education.

Law Enforcement Educational Grants. Available on a limited basis to law enforcement personnel already employed full-time by local, state, or federal law enforcement agencies. The value of the grants covers instructional fees up to \$250 per quarter. Students should request special Law Enforcement Grant applications from the LEEP Coordinator, Student Financial Aids and Scholarships, Room A, Chubb Hall, Ohio University, Athens, Ohio 45701.

Loan Funds

National Direct Student Loans (NDSL). Federal loans up to \$1,000 per year are available to undergraduate students under this program. No interest is charged on the direct loan while the student remains in school. Nine months after the student terminates his or her educational program the repayment period begins at a three percent interest rate. Repayment may extend over a ten-year period. Cancellation provisions are available to students who become teachers in an area having a high concentration of low-income families or teachers who work with the educationally disadvantaged. The exact amount of the loan is determined by demonstrated financial need. A cosigner, preferably the student's parent or guardian, is required in all cases and all loans must be secured by a promissory note.

Nursing Student Loan Program. The guidelines are essentially the same as those listed under the National Direct Student Loan Program. However, provisions are made for cancellation if the student becomes a nurse in a shortage area. Only those students enrolled in the Associate Degree Nursing Program at Ohio University Zanesville or the baccalaureate degree program for registered nurses at the Athens campus are eligible.

Emergency Short-term Loan Funds. There are emergency short-term loans (30-, 60-, and 90-day) available to assist students in the pay-

ment of University bills and educationally related expenses. A student must (1) have a guaranteed source of repayment, (2) be pursuing a full-time course of study, and (3) have a 2.0 accumulative average. A cosigner is usually required. Applications for these loans can be obtained in the Office of Student Financial Aids and Scholarships, Room B, Chubb Hall.

The availability of monies to be used for short-term loans is attributed to individuals and groups interested in assisting students seeking their education at Ohio University. These loan-fund donors, in alphabetical order, are alumni, Bishop, Campus Affairs Committee, engineer, Fenzel, Lichter, Men's Union Emergency, Parks, Shaw, Student Council, C. F. White, and Women's League.

Employment

Centralized Student Employment Policy. Ohio University established the Centralized Student Employment Services in 1974. This job service is centrally located in the Office of Student Financial Aids and Scholarships (020 Chubb Hall, Room A) in an effort to provide job opportunity information and placement for all students. Because the job service is centralized, students are insured an equal opportunity to apply for jobs. The service also insures uniform wage rates for comparable tasks and helps to coordinate student employment policies and procedures. Except for Graduate College contracts for graduate students, all vacant student positions must be posted in the Office of Student Financial Aids and Scholarships.

All jobs are posted on a job board outside Room A. Students are referred to employing departments for interviews and job placement. The main emphasis on a Centralized Student Employment Program is that it promotes equal opportunity by insuring that jobs will be posted and filled on a nondiscriminatory basis. Discrimination by race, creed, color, ancestry, sex, handicap and national origin is prohibited. A consistent grievance procedure is also followed by all departments employing students. This procedure is monitored by the Office of Student Financial Aids and Scholarships' student employment division. For more information on our Centralized Student Employment Policy, please stop by Room A Chubb Hall and get a detailed description of the Student Employment Service from the director of Work-Study and Student Employment.

College Work-Study Program (CW-SP). Students may earn a significant portion of their educational expenses through part-time employment in the College Work-Study Program. Students must apply for the College Work-Study Program through the Office of Student Financial Aids and Scholarships and must demonstrate financial need to qualify for the program. Employment opportunities generally coincide with the student's interest or

academic major. Full-time summer employment is also available to incoming freshmen, upperclass, and graduate students who show need and live in the greater Southeastern Ohio region. Students who receive Summer Work-Study employment are generally expected to save 80 percent of their net earnings to meet expenses for the next academic year. Inquiries and requests for applications should be directed to the Director of College Work-Study and Student Employment, Office of Student Financial Aids and Scholarships, Room A Chubb Hall, Ohio University, Athens, Ohio 45701.

Student Life Programs

Student Life Programs. This area encompasses and coordinates nearly all out-of-class activities at Ohio University.

The Student Life Office is located in 309 Baker Center. Two professional staff people, one secretary, and three undergraduate student interns help plan and administer programs, communicate with students and student organizations, and act as a focal point for the coordination of lecture, cultural, and entertainment programs. They also help students maximize their input into the decision-making process at Ohio University.

The Helen Mauck Galbreath Memorial Chapel. The chapel provides for the University and Athens communities an interdenominational center for individual and group meditation, worship, programs, or ceremony. It is open daily and is available to any student, faculty, or staff person for weddings, receptions, or services.

Student Activities Commission. This committee, which has a predominance of students, is a recommending body for policies and procedures in the student life area. It is responsible for the allocation of approximately \$48,000 to student organizations.

The Student Senate. Elected by the undergraduate student body, this group speaks for students on University policy and other student-interest issues which arise. It also recommends student appointees to University standing committees.

Handicapped Student Services Office. The Handicapped Student Services Office is the coordinating body disseminating information concerning services available for students with disabilities. The Handicapped Student Services Office acts as an advocate for handicapped students at the University — surveying the needs of these students and developing programs to meet those needs. The office also acts as a liaison with the local offices of the Bureau of Vocational Rehabilitation (B.V.R.) and the Bureau of Services for the Blind

(B.S.B.) to help coordinate services for handicapped students.

Volunteer Service Bureau. The Volunteer Service Bureau serves as a clearinghouse of information on nearly 20 social service agencies in the City of Athens and the volunteer opportunities they extend to Ohio University students. Students referred to these agencies have the opportunity to explore career choices or avocational interests while learning about commitment, responsibility, and sacrifice. Student organizations are also matched with these same agencies to provide service in occasional one-time-only projects.

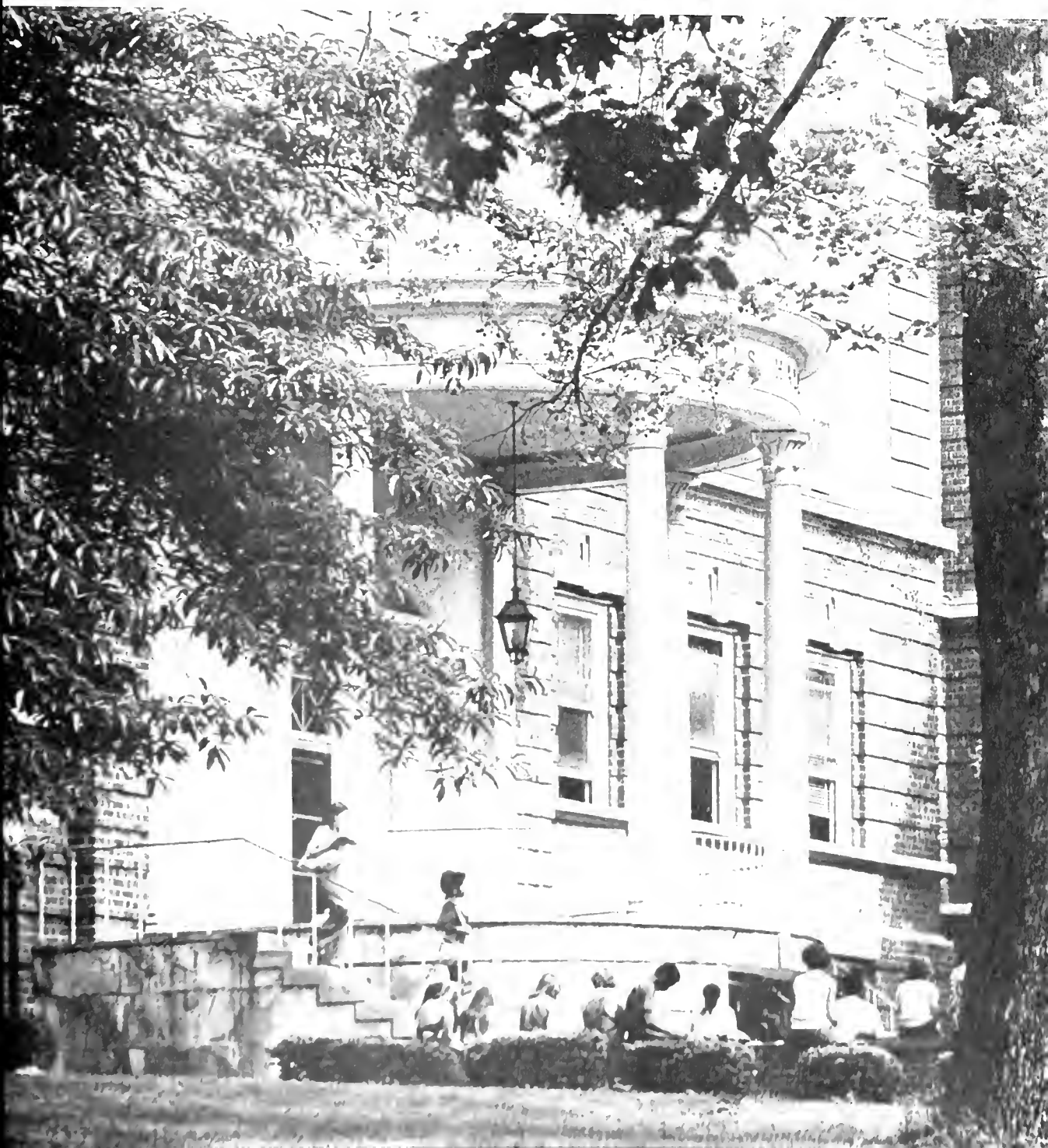
Affirmative Action

It is the policy of Ohio University that, in education and employment opportunities, there shall be no discrimination because of age except in compliance with age requirements of retirement plans or state and federal laws and guidelines.

The University conducts a vigorous affirmative action program in order to expand educational and employment opportunities and to insure nondiscrimination in its educational programs and activities.

Information regarding University programs and policies, as well as related state and federal provisions, are available through the Office of Affirmative Action, 103 McGuffey Hall.

The Colleges and Curricula



The College of Arts and Sciences

William F. Dorrill, *Dean*

Stanley P. Fisher, *Associate Dean*

Student Affairs:

William R. Jones, *Assistant Dean, Director of Student Affairs*

Alice O. Kemmerle, *Assistant to the Dean*

Ohio University remained a liberal arts college for almost one hundred years after it was founded. With the expansion of curricula and organization of new colleges and divisions during the last 75 years, the College of Arts and Sciences has held to what has been the central purpose of the college for more than a century and a half: to provide opportunities for the student to secure a sound liberal education. Since its focus is on the more general concerns of humanity, it is broader than, but in many cases includes, an education for immediate application. A liberal education implies teaching with a desire to impart knowledge, to encourage critical-mindedness, to increase the level of objective and quantitative thinking, to demand clear expression, and to reveal insights and ideas important to the thinking of free men and women. It also implies active effort on the part of the student to learn what is taught. Its greatest service is in its commitment to reason, in its search for basic knowledge, in its mission to preserve and to give continuity to the value of mankind's many cultures. A liberal education also affords an acquaintance with the language, skills, and methods in some scholarly area at a level that is more than merely introductory. It prepares the student for advanced graduate or professional training and in many cases for a more immediate vocation. In step with the changing needs of our society, the college has maintained the central purpose of a liberal education while providing professional curricula and area studies based on research and geared to today's career opportunities.

These objectives are achieved through the courses which make up the curricula of the college — courses which historically have been regarded as the means whereby people have

come to understand themselves and the world in which they live. These courses have taken a place in our academic disciplines as the result of today's technological and scholarly advances. The student gets specialized knowledge in some particular field through major requirements, and also gets a fundamental education in foreign languages and other humanities, social sciences, and natural sciences. In line with these goals, the following pages illustrate that the AB and BS degrees require specific courses only in the major. Beyond this, the degree requirements are designed to cause students to familiarize themselves with the languages, humanities, social sciences, and natural sciences as separate areas but with considerable freedom of choice within the areas. In addition, most programs allow for as much as a full year of elective study.

The College of Arts and Sciences is the largest and oldest college at Ohio University. Comprising 19 departments, the college offers 26 regular major programs; more than 30 special programs which prepare for specific, career-related goals; and six majors arranged in cooperation with other colleges. As part of any of the programs, the student may complete a minor in business administration or modern foreign languages. Also, the college offers a two-year associate in applied science degree program in mental health technology.

Departments

The College of Arts and Sciences includes the following 18 departments:

Botany

Chemistry

Forensic Chemistry

Industrial Hygiene
 Classical Languages
 Archaeology and Antiquities
 Greek
 Latin
 Computer Science
 Economics
 English Language and Literature
 Creative Writing
 Great Books
 Geography
 Geology
 History
 Linguistics
 Chinese
 Hausa
 Indonesian/Malay
 Swahili
 Mathematics and Astronomy
 Modern Languages
 French
 German
 Italian
 Portuguese
 Russian
 Spanish
 Philosophy
 Physics
 Physical Sciences
 Political Science
 Psychology
 Social Work
 Mental Health Technology
 Sociology and Anthropology
 Zoology and Microbiology

Degrees, Majors, and Minors

The college offers two four-year degrees — the bachelor of arts (AB) and the bachelor of science (BS).

A major for the AB degree may be completed in the following areas:

Anthropology
 Botany
 Chemistry
 Classical Languages (Latin)
 Computer Science
 Economics
 English Language and Literature
 Geography
 Geology
 History
 International Studies
 Mathematics
 Modern Languages
 French
 German
 Russian
 Spanish
 Philosophy
 Physics
 Political Science
 Psychology
 Social Work
 Sociology
 Zoology

See the *Courses of Instruction* section in the back of this catalog for the major requirements.

Arts and Sciences students may complete the following non-Arts and Sciences majors earning an AB degree:

Art
 Home Economics
 Interpersonal Communication
 Journalism
 Music
 Theater

Information concerning the requirements for these majors can be obtained from the Office of the Dean.

A major for the BS degree may be completed in the following areas:

Botany
 Chemistry
 Computer Science
 Forensic Chemistry
 Industrial Hygiene
 Geography
 Geology
 Mathematics
 Microbiology
 Physics
 Zoology

See the *Courses of Instruction* section in the back of this catalog for the major requirements.

Arts and Sciences students may complete a BS degree in the following non-Arts and Sciences major:

Home Economics

Special Curricula

The college offers special curricula in the following areas:

Preparation for Advanced Training in
 Astronomy
 Preparation for Advanced Training in
 Botany
 Preparation for Advanced Training in
 Mathematics
 Preparation for Advanced Training in
 Physics
 Preparation in Agri-Business
 Preparation in Applied Mathematics
 Preparation in Applied Physics
 Preparation for Cell Biology
 Preparation in Creative Writing
 Preparation for Criminology
 Preparation for Dentistry
 Preparation for Environmental Biology
 (Botany Emphasis)
 Preparation for Environmental Biology
 (Zoology Emphasis)
 Preparation for Environmental Chemistry
 Preparation for Environmental Geography
 Preparation for Environmental Geology
 Preparation in Field Biology
 Preparation for Forestry
 Preparation for Government Foreign
 Service
 Preparation for Horticulture

Preparation for Law
 Preparation in Linguistics
 Preparation for Medical Technology
 Preparation for Medicine
 Preparation for Meteorology
 Preparation for Optometry
 Preparation for Pharmacy
 Preparation for Physical Therapy
 Preparation for Theology and Religion
 Preparation for Veterinary Medicine
 Preparation in Water Resources

See the Special Curricula section for information about these programs.

The college offers the associate in applied science (AAS) degree in mental health technology.

The college offers formal minors in many of the regular major areas and a minor in business administration in cooperation with the College of Business Administration. See the Special Curricula section for the business administration minor requirements and the *Courses of Instruction* section for the other minor program requirements.

BACHELOR OF ARTS AND BACHELOR OF SCIENCE DEGREE REQUIREMENTS

Since a student enrolled in any college at Ohio University may elect courses in any other college with considerable freedom, much of the coursework required by the other colleges is offered by the faculty of the College of Arts and Sciences. A student pursuing a degree in this college may elect courses, and in some instances may complete a major, in departments of the other degree-granting colleges.

A student entering the College of Arts and Sciences is assigned an advisor who teaches in the area of the student's major. Faculty advisors will assist in the preparation of a schedule each quarter so that the proper sequences of courses in the major and appropriate related courses are selected. **HOWEVER, THE STUDENT IS RESPONSIBLE FOR SEEING THAT ALL REQUIREMENTS FOR THE DEGREE ARE BEING MET.**

Regardless of the major he or she is completing, the Arts and Sciences degree student follows a basically consistent outline to determine the requirements for a particular program.

The general requirements for the AB or BS degree are a total of at least 192 quarter hours with at least 90 hours in Arts and Sciences coursework above the freshman level (numbered 200 or above) and including two years of foreign language; at least 18 hours each of humanities, social sciences, and natural sciences; the University English composition requirement of one course at the freshman level and one course at the junior level; and the requirements for the chosen major as stipulated

by the appropriate department. Minors are optional. The AB and BS degree programs differ only in the language requirement (see language requirement section below) and in the specific major requirements as designated by the individual departments (see major requirement section below). The following pages describe the details of these requirements in the order listed.

1. Major Requirement
2. English Composition Requirement
3. Foreign Language Requirement
4. Humanities Area Requirement
5. Social Sciences Area Requirement
6. Natural Sciences Area Requirement
7. Level of Study Requirement (Hours above 200)
8. Total Hours Required and Credit Allowed
9. The Single Application of Credit
10. Averages Required
11. General Degree Information
 - a. Advising
 - b. Degree in *Absentia*
 - c. Double Major
 - d. Dual Major
 - e. Minor Requirement
 - f. Pass/fail
 - g. Second Bachelor's Degree
 - h. Teacher Certification
 - i. Time and Resident Load Limitations
 - j. Transfer and Transient Study

1. The Major Requirement

The specific requirements for each major in the departments in the College of Arts and Sciences are indicated in the *Courses of Instruction* section of this bulletin. Special requirements for the preprofessional areas (preparation for medicine, preparation for law, etc.) are explained in the Special Curricula section which follows.

The student interested in one of the special curricula programs must complete the entire special curriculum as indicated, taking care also to see that the regular area requirements of language, humanities, social sciences, natural sciences, and 200-level hours are completed. The student who wishes to complete the regular departmental program should disregard the special curricula and refer to the appropriate major requirements in the *Courses of Instruction* section of this catalog. Requirements for the non-Arts and Sciences cooperative major programs are determined by a special advisor in each department and can be obtained from the Office of the Dean.

College policy requires that each major consist of a minimum of 36 quarter hours in one subject area. This includes nine quarter hours which must be taken at the junior-senior level.

Specific departmental requirements must also be met. It should be noted that most departments require more than 36 hours for the major, and that the student *must fulfill the major requirements stipulated by the department.*

Methods courses are not included in the major. The AB degree candidate can count a maximum of 72 hours in one subject toward the degree; the BS degree candidate may count a maximum of 80 hours.

Formal majors in the Arts and Sciences disciplines may be completed only by students enrolled in the College of Arts and Sciences. Exceptions are teacher certification candidates who may enroll either in the College of Arts and Sciences or the College of Education, and economics majors, who may enroll either in the College of Arts and Sciences or the College of Business Administration.

2. The English Composition Requirement

The student is required to complete one course selected from English 171, 172, 173, or 175 and one course selected from English 305 or 308. The 100-level course should be completed during the freshman year, and the second course should be completed during the junior year*.

English courses fulfilling the composition requirement will apply simultaneously to the humanities area requirement. English 150, a remedial course, will be required of some students as the result of their performance on the placement tests required of all entering students. In this case, the regular two-course composition requirement must be completed after the successful completion of English 150. Credits earned for English 150 will apply as electives toward the required minimum of 192 hours, but will not apply to the humanities requirement.

Transfer students who receive transfer credit for comparable courses have no additional composition requirement. Those without comparable courses must complete the requirement as described above if they began their college-level study during or after fall, 1977. Those entering a college-level program prior to this should consult the office of the dean concerning a partial waiver.

*Other courses may be approved by the Composition Committee for application to the junior-level requirement. The student can identify these courses by checking with the Office of the Dean.

3. The Foreign Language Requirement

Courses taught at Ohio University which may be used to fulfill the language requirement are the African and Asian languages (Chinese, Hausa, Indonesian/Malay, and Swahili), the classical languages (Greek and Latin), Germanic language (German), Romance languages (French, Italian, Portuguese, and Spanish) and Slavic language (Russian).

In each case, the numbers 111, 112, and 113 represent the first (beginning) year of the language and 211, 212, and 213 represent the sec-

ond (intermediate) year. In the case of Germanic, Romance and Slavic languages, the exceptionally well-prepared student may taken language 241 in place of 213.

Candidates For The AB Degree

The AB degree foreign language requirement is a complete two-year sequence through 213 (or 241).

Two years of high school language can be equivalent to one year of college language. The student who has completed two or three years of one language in high school and who wishes to complete the requirement in that language may do so according to the instructions in the table at the end of this section. In the case of Latin, a student with at least two years of high school Latin may also fulfill the requirement by passing Greek 111-112-113 or Lat 211-212-213.

A student who has completed four or more years of one modern foreign language in high school may complete the foreign language requirement by passing course number 213, or any higher level course in that language. The student with four years of Latin in high school may elect to complete Lat 351 rather than 213. Of the choices, 351 is recommended.

Candidates For The BS Degree

The BS degree candidate may meet the foreign language requirement with proficiency in foreign language(s) equivalent to two years of college study. To determine individual requirements, the student should bear in mind that two years of high school study in a single language is considered equivalent to one year of that language at the college level. Therefore, the student who enters college with two years of preparation in each of two languages or four years in a single language may consider the requirement for the BS degree already filled. The student who has had two high school years in only *one* language may complete the requirement by taking the college intermediate year (211, 212, and 213)* in the same language or by taking the beginning year (111, 112, and 113) in a *second* language. Credit is not given toward meeting the foreign language requirement for the first and second quarters of a beginning or intermediate year unless the third quarter is also completed.

Language Placement Table

Although the student will not lose credit if it is necessary to repeat high school language work, he or she is advised to begin college work in foreign languages according to the following table:

| Years of language in high school: | Begin college language at: |
|---|----------------------------|
| 0-1 year | Course 111. |
| 2-3 years | Course 211. |
| 4-5 years | Course 213 (or 241). |
| Degree credit cannot be earned for both | |

213 (nonmajor course) and 241 (major course).

*Note that completion of the college-level beginning year of a language taken for two or three years in high school does not complete the requirement.

If the student chooses to repeat high school language work, the credit earned applies, still, to the language requirement in the regular fashion, not to the humanities requirement.

Foreign Students

Upon entering Ohio University, a foreign student whose native language is not English may satisfy the foreign language requirement by demonstrating competence in English. This must be approved by the director of the Ohio Program of Intensive English and generally requires the completion of one course in English as a foreign language. In some cases the student must seek from the chairman of the Department of Linguistics certification of his or her acceptable level of ability in a non-English language. The student may also satisfy the foreign language requirements by taking a foreign language other than his or her own.

4. The Humanities Area Requirement

The humanities requirement may be met by a selection of 18 quarter hours from two or more areas, with at least eight hours in one area, from among the following:

- a. archaeology
- b. art history *except* 334, 337, 338, 339 (Film), and 237, 238 and 239 (History of Photography)
- c. comparative arts
- d. English courses *except* Eng 150
- e. foreign language courses other than those used to complete the foreign language requirement
- f. Greek Words in the English Language (Gk 127)
- g. Foreign Literatures in Translation (modern, classical) and Mythology
- h. Hum 107, 108, 109 or 307, 308, 309 — Great Books
- i. philosophy
- j. Music history and literature
- k. Dance Cultures of the World (Danc 351, 352, 353); History of Dance (Danc 471, 472, 473); and Viewing 20th Century Dance (Danc 170 and 370)
- l. History and criticism of oratory
- m. History of theater

5. The Social Sciences Area Requirement

The social science requirement may be met by a selection of 18 quarter hours from two or more areas, with at least eight hours in one area, from among the following:

- a. anthropology

- b. business law 255, 370, 442 and 475
- c. economics *except* 100
- d. geography *except* 101, 301, 311, 312
- e. history
- f. international studies 103, 113, 121
- g. linguistics
- h. political science
- i. psychology *except* 226, 312, 314
- j. social work
- k. sociology

6. The Natural Sciences Area Requirement

The natural science requirement may be met by a selection of 18 quarter hours from two or more areas, with at least eight hours in one area, from among the following:

- a. astronomy
- b. botany
- c. chemistry *except* 115
- d. computer science *except* 150
- e. Geog 101, 301, 311, 312
- f. geology
- g. mathematics *except* 120, 121 and 320
- h. microbiology
- i. physical sciences (PSc)
- j. Psy 226, 312, 314
- k. physics
- l. zoology

Note: Methods courses do not apply to the area requirements.

Some courses not offered by Arts and Sciences departments and not specifically mentioned above may at times qualify for application to one of the Arts and Sciences degree requirements. For the course(s) to be considered for this purpose, the unit responsible for the course should submit a written request for such consideration, including a complete description of the course, teaching responsibility, and related information to the chairman of the College of Arts and Sciences Curriculum Committee in the office of the dean of the college, *before* the quarter during which the course is scheduled to be taught. The course(s) then will be reviewed according to the same criteria used for all courses taught within the college.

7. The Level of Study Requirement (Hours Above 200)

Within the total hours applied to the degree, at least 90 quarter hours of Arts and Sciences (liberal arts) courses must be above the freshman level; that is, they must be numbered 200 or above. Arts and Sciences courses are defined as those courses listed under humanities, social sciences, and natural sciences (#s 4, 5 and 6) above.

Education courses which are required for teacher certification may be applied toward the 200-level requirement only when the student has met all the requirements for teacher certification. These courses count also for the psychology major who plans to enter the graduate program in school psychology, upon written recommendation of the chairman of the Psychology Department certifying individual need and eligibility.

Economics majors may apply to the 200-level requirement a maximum of 15 hours from: QM 200 and 201, 441, and any advanced offering in statistics.

Non-Arts and Sciences courses are considered to be electives. These are not counted toward the 200-level requirement, but are counted toward graduation.

8. Total Hours Required And Credit Allowed

A minimum total of 192 quarter hours for credit is required for either degree. Only the final hours earned when courses are repeated count for graduation.

Noncredit courses (courses numbered below 100, courses completed after advanced-level work in the same field, certain technology courses and credits duplicated by repetition of coursework) are not accepted toward the 192-hour requirement. The student should be aware that one may not repeat courses for the purpose of affecting one's grade point average after the completion of higher level courses in the same field. Also, coursework completed at another university cannot be used to repeat coursework taken at Ohio University.

No more than 72 hours in any one subject may be counted toward the AB degree; and no more than 80 hours in one subject may be counted toward the BS degree. See the *Guidelines and General Information* section of this catalog for a description of the residence requirement, which can, for some students, increase the total hours required.

9. The Single Application of Credit

No course may satisfy more than one of the area requirements in foreign language, humanities, social sciences, natural sciences or the major requirement. For example, a philosophy major may not apply any courses in philosophy toward the humanities requirement. (Courses required for a major but outside the major department will be counted toward the area requirements.) However, the student majoring in a foreign language may apply courses at the beginning and intermediate levels of that language toward the language requirement since the language major is defined as including only those courses above the intermediate level. For teacher certification students, certain courses in the comprehensive major may fulfill requirements for the appropriate area; students

will need to consult with their advisors on this point. English, except for Eng 150, an elective, applies to the humanities area requirement.

10. Averages Required

In order to receive a degree from the College of Arts and Sciences, a student must have a minimum point-hour ratio of 2.0 on all of the following:

1. All hours attempted at the college level.
2. All hours attempted at the college level in the major.
3. All hours attempted at Ohio University.
4. All hours attempted at Ohio University in the major.

Only the final hours and points in repeated courses are counted for graduation. However, all courses including failures are included on the student's transcript. For repeated courses see the *Guidelines and General Information* section of this catalog. Note that the repeated-course policy does not apply to the repetition of a course after a course for which it was a prerequisite has been completed.

The graduation point-hour ratio is computed after deductions for duplicated courses have been made. Note also that courses taken at Ohio University and repeated at another school do not result in deduction of the first grade earned.

11. General Degree Information

a. Advising

The college prepares, on a quarterly basis, current degree information for each student in the form of graduation check sheets and lists of currently enrolled students grouped according to their declared majors. At advising and preregistration time each quarter, the student receives a copy of the check sheet and copies are given to the advisors, whose names are posted on the major lists in the departmental offices. The student consults the list to identify his or her advisor, and should meet with the advisor not only during preregistration, but regularly throughout the year when assistance concerning academic requirements and plans is needed.

It is hoped that the student will develop a close relationship with the advisor concerning the student's academic program. Any arrangements deviating from the major requirements as described in the *Courses of Instruction* section of this catalog must be communicated to the office of the dean in writing by the department chairman or the undergraduate advising coordinator for the appropriate department. The student should visit the office of the dean when exceptional circumstances exist, upon referral by his or her advisor, or to correct errors and change programs.

To change his or her major, the student must visit the office of the dean. A change of major is not accomplished by making a change

on the registration form.

When the major is changed, the advisor is changed automatically by the college. All other matters pertaining to the assignment of advisors are administered by the departmental offices.

b. Degree in Absentia

A student who wishes to earn a degree *in absentia* must complete 144 quarter hours including the specific requirements for the chosen program at Ohio University. A point-hour ratio of 2.0 or better must be maintained on all work attempted, and on all work in the major. All college area requirements must be completed, except the 200-level requirement, of which at least 45 hours must be completed. A full year's work in an accredited school of dentistry, forestry, law, medical technology, medicine, optometry, physical therapy, or veterinary medicine must be completed, and the student must be advanced without condition to the second year of training at the professional school (when the program is for two or more years). Note that the *in absentia* privilege is not available for programs in Arts and Sciences other than those listed above. For the degree *in absentia*, the student must successfully complete the professional program specified.

For the medical technology program, the student must receive the approval of the medical technology advisor; and for any other *in absentia* programs, a statement must be secured from the dean of the college before the student enters the professional school granting the degree *in absentia* privilege. The student should bear in mind that admission to the professional schools is highly competitive, requiring high-level performance in the undergraduate program.

c. Double Major

The completion of at least one formal major is required for a degree. The completion of a second major is an option which any Arts and Sciences student may elect. In this case, the student must complete all requirements for each Arts and Sciences major as described in the *Courses of Instruction* section of this catalog. Courses in either major will not apply to the area requirements, but extradepartmental requirements (such as chemistry for a zoology major) will apply to the area requirements. Also, extradepartmental requirements and area requirements need not be duplicated. For example, completing two majors does not double the humanities requirement.

d. Dual Major

A student wishing to earn a dual major in two related fields must consult with the chairman of each department involved and the dean of the college. Most departments stipulate that the student must complete the requirements for the full major in both areas even though he or she is pursuing a dual major. Courses taken in

either or both of the fields, even though not required for the major, cannot be used to complete the general area requirements in foreign language, humanities, social sciences, or natural sciences. The College of Arts and Sciences requires a minimum of 23 quarter hours (including nine hours at the 400-level) beyond the introductory course in each field. Specific requirements are left to the discretion of the departments concerned.

e. Minor Requirement

There is no formal minor requirement for the college. However, the college offers formal minors in a number of the regular major areas. These minors are available to all Arts and Sciences students regardless of their majors. With the approval of the appropriate dean, students in other colleges can earn these minors. Also available to the Arts and Sciences student is a formal minor in business administration.

College policy requires that a minor consist of a minimum of 24 hours and a maximum of 35 hours, including at least two courses at the junior-senior level. In the case of foreign languages, the minimum requirement is 21 hours beyond 213, and, for English, courses fulfilling the composition requirement do not count as part of the minor. Within these limits, the distribution of courses is determined by the department. See the Special Curricula section which follows for the business administration minor requirements and the *Courses of Instruction* section for the Arts and Sciences minor requirements.

f. Pass/Fail

Ohio University policy prohibits taking required coursework on the pass/fail basis. For the Arts and Sciences student, this means that courses applying to the foreign language, humanities, social sciences, natural sciences, major, minor, 200-level, and special curricula requirements cannot be taken pass/fail. This applies as well to the requirements for the associate in applied science degree program and the business administration and modern languages minor programs effectively limiting the pass/fail option in all programs to strictly elective coursework.

The student may complete a maximum of 20 hours of elective coursework on the pass/fail basis.

g. Second Bachelor's Degree

The AB or BS degree is granted only once to a given student. The student may, however, complete additional majors within the degree program or may earn both the AB and BS degree or degrees from separate degree-granting colleges. For the guidelines for earning a second bachelor's degree, see the *Guidelines and General Information* section of this catalog. Note that the College of Arts and Sciences requires the completion of a minimum of 240 quarter hours for the second degree or 48 hours

beyond the 192 hours required for the first degree, including all specific requirements for both degree programs.

h. Teacher Certification

Students earning either bachelor of arts or bachelor of science degrees in the College of Arts and Sciences may meet the special requirements for certification to teach in the secondary schools in Ohio by completing the following:

1. The regular program for the AB or BS degree with a teacher education major.
2.
 - a. Psy 275 or EdC1 275 5
 - b. EdSe* 250 4
 - c. EdPI** 360 or 361 2
 - d. EdSe 351 5
 - e. EdSe 480 3
 - f. The methods course(s) 3-6
 - g. EdPI 463-464 12
 - h. EdPI 465 3
3. The teaching major — The teaching major program consists of the student's standard major plus courses required for certification. The student can obtain a description of this program from the Office of the Dean of the College of Arts and Sciences or from the Office of Student Personnel Services in Education in McCracken Hall.

*EdSe — Secondary Education
**EdPI — Professional Laboratory

All students must meet the following general education requirements for certification in Ohio, as set forth by the State Department of Education:

Students must complete a total of 45 quarter hours of general education. These 45 quarter hours must be distributed so as to include at least two courses in each of the following fields:

1. Science and mathematics (one course in each)
2. Comparative arts and/or philosophy
3. Social science
Psy 101 is required
4. English, and/or foreign language
InCo 103 is required unless waived on the basis of a high school speech course. All students must complete the University English composition requirement. Courses taken for this purpose can apply also to this requirement.

If the major subject is the same as one of the above fields, then ten quarter hours of the major may be counted towards the corresponding general education field as well as the major.

Careful selection of courses in meeting the College of Arts and Sciences area requirements will enable the student to fulfill all of the above general education requirements without exceeding the hours required for any requirements in the College of Arts and Sciences.

A prerequisite to certification is the satisfactory fulfillment of the Program of Selective Admission and Retention in Teacher Education.

For information about this program, see the *College of Education* section of this catalog.

i. Time and Resident Course Load Limitations

The student's requirements are defined by the catalog in effect when he or she begins study in a given program (when he or she first registers at Ohio University or changes to a new major program). Upon the expiration of five years past the date of entry, the requirements become defined by the current catalog.

(See the *Guidelines and General Information* section of this catalog.)

The student should bear in mind that an average course load of 16 hours per quarter is considered the standard load for graduation after four years of full-time study and that a course load in excess of 20 hours in a given quarter results in an increase in the tuition fee for that quarter. Also, the student should become familiar with the residence requirements which stipulate the minimum amount of work which must be completed at Ohio University in order to receive a degree from this institution (see the *Guidelines and General Information* section of this catalog).

Students who have requirements which involve courses numbered below 300 should start meeting such requirements not later than the beginning of the sophomore year. This is strongly recommended in the case of foreign language. Registration by juniors or seniors in courses numbered below 300 is discouraged and in some cases prohibited.

j. Transfer and Transient Study

A transfer student is required to complete at least 12 quarter hours toward the major in courses at the 300 level or above in the major department at Ohio University, with a point-hour ratio of at least 2.0. These courses should be approved by the department chairman. A transfer student completing the dual major is required to complete at least nine quarter hours at the 300 level or above in each of the two departments at Ohio University, with a point-hour ratio of at least 2.0 in each department. These courses should be approved by the chairmen of the two departments.

The transfer student or student earning credit by transient study should keep in mind that, in order to receive a degree, he or she must have a 2.0 or better average on all work done at Ohio University and on all work done in the major at Ohio University (see #10 above).

The transfer student should note the residence requirement which stipulates that a minimum of 48 final hours (one full year) must be completed with residence credit.

The senior student wishing to earn credit by transient study should keep in mind that he or she must complete the final 16 hours in residence at Ohio University if 96 or more hours were previously earned in residence. If fewer than 96 hours were earned in this manner, the final residence requirement is 48 hours.

The student wishing to arrange to earn credit by transient study must secure approval from the dean prior to registering for such study. This permits review and clarification of requirements and procedures and prevents loss of credit.

The student is encouraged to read the *Guidelines and General Information* section of this catalog for general University academic information, including information about the

grading system, probation, credit hour loads, and residence requirements.

SPECIAL CURRICULA

Among the special curricula which follow, the four-year degree programs represent curricula which are structured in a way that will help the student prepare for a specific application of his or her undergraduate program to a selected educational or career objective. The student completing a given program will earn the major indicated in each case. For example, the student completing a formal premedicine program will graduate with a major in chemistry-premedicine or zoology-premedicine.

To be recognized as having completed a special curriculum and in order to complete graduation requirements, the student must complete the entire curriculum as listed, plus additional courses as necessary to complete a total of at least 192 hours and the Arts and Sciences degree requirements. Should the student elect not to complete the special curriculum, then he or she, in order to complete the requirements for a major, must complete the requirements for the major as indicated in the *Courses of Instruction* section of the catalog.

Preparation for Advanced Training in Astronomy

(Physics-Preastronomy Major, major code #3335)

The following program will lead to the BS degree with a physics major and will provide the background required for admission to graduate school in astronomy.

Freshman

| | |
|--|----|
| English Composition | 5 |
| Math 263A††, 263B, 263C Analyt. Geom. & Calc. | 15 |
| Phys 251†, 252 Gen. Phys. | 10 |
| Arts and Sciences degree requirements (including language) and/or electives. | |

Sophomore

| | |
|--|----|
| Phys 253 Gen. Phys. | 5 |
| Phys 272 & 273 Electron. Lab. | 4 |
| Math 340 Diff. Equations | 5 |
| Math 441 Fourier Analys. & Partial Diff. Equations. . | 5 |
| Math 450A & 450B Theory of Stat. | 10 |
| Math 410 Matrix Theory | 5 |
| Arts and Sciences degree requirements (including language) and/or electives. | |

*323 and 325 are offered in alternate years.

Junior

| | |
|--|---|
| English Composition | 5 |
| Phys 311 & 312 Mechanics | 8 |
| Phys 451 & 452 Quantum Phys. | 8 |
| Phys 453 Nuclear & Particle Phys. | 4 |
| Astr 300 Solar System | 3 |
| Astr 301 Sun & Stars | 3 |
| Astr 302 Stars & Galaxies | 3 |
| Astr 310, 311, 312 Astronomy Lab. | 3 |
| Phys 371 Intern. Lab. (Electrons) | 2 |
| Phys 372 Intern. Lab. (Photons) | 2 |
| Phys 373 Intern. Lab. (Nucleons) | 2 |
| Phys 423 Optics | 4 |

Arts and Sciences degree requirements (including language) and/or electives.

Senior

| | |
|--|----|
| Phys 427, 428, 429 Elec. & Magnetism | 11 |
| Phys 411 Thermodynamics | 4 |
| Phys 412 Kinetic Theory & Stat. Mechanics | 4 |
| Astr 350 Celestial Mechanics | 4 |
| Astr 450 Studies in Astronomy | 8 |
| Arts and Sciences degree requirements (including language) and/or electives. | |

For students in the Honors Tutorial Program, special combinations of some of the above courses are available.

*See the foreign language requirement; candidates for the BS degree, see #3 above.

**See the humanities area requirement and the social sciences area requirement, see #s 4 & 5 above.

†Physics courses complete the physics major requirements.

††Math and astronomy courses complete the natural sciences requirement.

Preparation for Advanced Training in Botany

(Botany-Advanced Training Major, major code #2116)

Students who intend to major in botany should plan their undergraduate programs to follow closely the sequence presented here. All students planning to follow this curriculum should consult the undergraduate chairman in the Department of Botany as soon as they elect this program so that they can be assigned to advisors. It is absolutely essential that students who plan to take advanced training in botany upon graduation see an advisor before beginning their undergraduate programs, and especially before making a choice of math or chemistry sequence, so that they can be advised as to the specific program which best meets their needs, both now and in the future. No substitutions or deletions should be made in the program outlined below without first consulting with an advisor in the Department of Botany.

Freshman

| | |
|--------------------------------------|---|
| Bot 110 Intro. to Bot. | 6 |
| Bot 111 Intro. to Bot. | 6 |
| Zool 151 Intro. to Zool. | 6 |
| Chem 141 Fundamentals of Chem. | 5 |
| Chem 142 Fundamentals of Chem. | 5 |
| Chem 143 Quant. Analys. | 5 |
| English Composition | 5 |
| Math 163A, 163B Intro. to Calc. | 8 |

OR

| | |
|---|----|
| Math 263A, 263B Analyt. Geom. & Calc. | 10 |
| (Note: Students should be certain to see an advisor before making a choice of math sequence.) | |
| Arts and Sciences degree requirements (including language) and/or electives. | |

Sophomore

| | |
|--|---|
| Bot 307 Biol. of Algae & Mosses | 6 |
| Bot 308 Morphology of Vascular Plants | 6 |
| Bot 309 Plant Systematics | 5 |
| Bot 310 Biol. of Fungi | 5 |
| Chem 301, 302, 303, 304 Organic Chem. | 9 |
| (Note: For a stronger chemistry background, students should consider taking Chem 305, 306, 307, 308, 309 in place of Chem 301, 302, 303, 304.) | |
| English Composition | 5 |
| Arts and Sciences degree requirements (including language) and/or electives. | |

Junior

| | |
|-------------------------------|---|
| Bot 424 Plant Physiology | 6 |
| Bot 431 Cytology | 5 |

| | |
|--|-----|
| English Composition | 4-5 |
| Zool 325 Genetics | 5 |
| Phys 201, 202, 203 Intro. | 12 |
| Arts and Sciences degree requirements (including language) and/or electives. | |

Senior

| | |
|--|---|
| Bot 405 Discussions about Biology | 2 |
| Bot 425 Plant Ecology | 5 |
| Bot 475 Plant Speciation & Evolution | 3 |
| Arts and Sciences degree requirements (including language) and/or electives. | |

Preparation for Advanced Training in Mathematics

(Mathematics-Advanced Training Major, major code #3102)

Students who envision eventually doing mathematics graduate work can ensure adequate preparation by building their programs around the basic mathematics offerings listed below. In addition, some computer science experience and coursework from the physical sciences is recommended. Interested students should consult an advisor in the Mathematics Department for assistance in planning their programs.

Freshman

| | |
|--|----|
| Math 263A, 263B, 263C Analyt. Geom. & Calc. | 15 |
| Arts and Sciences degree requirements (including language) and/or electives. | |

Sophomore

| | |
|--|---|
| Math 340 Diff. Equations | 5 |
| Math 360 Interim. Analys. | 5 |
| Math 211 Elem. Linear Algebra | 5 |
| AND/OR | |
| Math 214 Elem. Abstract Algebra | 5 |
| Arts and Sciences degree requirements (including language) and/or electives. | |

Junior-Senior

| | |
|--|----|
| Math 460A, 460B, 460C Adv. Calc. | 15 |
| Math 413A & 413B Intro. to Mod. Algebra | 10 |
| AND/OR | |
| Math 480A & 480B Elem. Point Set Topology | 10 |
| Arts and Sciences degree requirements (including language) and/or electives. | |

The student also is encouraged to select some other 400-level mathematics electives as time and interest permit. Some suggestions include: 470; 450A, B; 440; 441.

Preparation for Advanced Training in Physics

(Physics-Advanced Training Major, major code #3334)

This is a demanding program for students interested in eventually getting advanced degrees in theoretical or experimental physics. However, there are included courses which would equip the graduate for career opportunities in industrial and government laboratories. Students should also consult the physics curricula and courses in the *Courses of Instruction* section of the catalog and should consult the chairman about this program in their freshman year.

Freshman

| | |
|--|----|
| English Composition | 5 |
| Phys 251* & 252* Gen. Phys. | 10 |
| Math 263A*, 263B*, 263C* Analyt. Geom. & Calc. | 15 |
| Arts and Sciences degree requirements (including language) and/or electives. | |

Sophomore

| | |
|--|----|
| Phys 253* Gen. Phys. | 5 |
| Phys 272* & 273* Electron. Lab. | 4 |
| Math 340* Diff. Equations | 5 |
| Math 441* Fourier Analys. & Partial Diff. Equations . | 5 |
| Math 440* Vector Analys. | 5 |
| Nat Sci ² * | 12 |
| Phys 303** | 3 |
| Arts and Sciences degree requirements (including language) and/or electives. | |

Junior

| | |
|--|---|
| English Composition | 5 |
| Phys 311*, 312*, Mechanics | 8 |
| Phys 451* & 452* Quantum Phys. | 8 |
| Phys 453 Nuclear & Particle Phys. | 4 |
| Phys 371* Interim. Lab. (Electrons) | 2 |
| Phys 372* Interim. Lab. (Photons) | 2 |
| Phys 373* Interim. Lab. (Nucleons) | 2 |
| Math 470† Appld. Complex Variables | 5 |
| Phys 423 Optics | 4 |
| Phys 420 Acoustics | 3 |
| (Odd years) | |
| Math 410† Matrix Theory | 5 |
| Arts and Sciences degree requirements (including language) and/or electives. | |

Senior

| | |
|--|-----|
| Phys 427*, 428*, 429† Elec. & Magnetism | 11 |
| Phys 475** Adv. Lab. (Each of three quarters) | 3-9 |
| Phys 411* Thermodynamics | 4 |
| Phys 412 Kinetic Theory & Stat. Mechanics | 4 |
| Phys 420 Acoustics | 3 |
| (Odd years) | |
| Phys 471 Solid State Phys. | 4 |
| Phys 493 Undergraduate Seminar | 1 |
| Phys 621 Intro. Quantum Mechanics | 5 |
| Phys 622† Intro. Quantum Mechanics | 5 |
| Arts and Sciences degree requirements (including language) and/or electives. | |

*Note: Phys 251, 252, 253 recommended, but Phys 201, 202, 203 possible. This alternative is to be followed by Phys 315.

²12 hours of natural science other than physics and mathematics are required.

*Required for the BS degree in physics.

**Recommended.

†Recommended for those physics majors wishing to pursue graduate studies in physics.

Preparation in Agri-business

(Botany—Agri-business Major, major code #2117)

This program is the same as the Botany-Environmental Biology Program except that, in addition to those requirements, the student must complete:

(1) a total of 18 hours selected from the following departments, with a minimum of four hours from each department: Geography, Geology, Zoology-Microbiology;

(2) the requirements for the minor in business administration. These consist of 28 or more credit hours, including at least one course from each of the following: statistics, accounting, economics, production, finance, marketing, and management. Recommended courses include:

| | |
|----------------|---|
| Statistics | |
| Phys 121 | 5 |
| OR | |

| | |
|---------------------|---|
| QM 201 | 4 |
| OR | |
| Econ 381 | 4 |
| OR | |
| an equivalent | |
| Accounting | |
| Acct 101 | 4 |
| Economics | |
| Econ 101 | 4 |
| Production | |
| BA 310 | 4 |
| Finance | |
| Fin 325 | 4 |
| Marketing | |
| Mkt 301 | 4 |
| Management | |
| Mgt 200 | 4 |
| OR | |
| Mgt 300 | 4 |

Students electing this program should consult their advisors about the selection of courses and the necessity for meeting prerequisites as well as Arts and Sciences degree requirements, including languages.

Preparation in Applied Mathematics

(Mathematics-Applied Major,
major code #3103)

This program offered by the Department of Mathematics leads to a BS degree in mathematics and allows an emphasis on applications of mathematics to some other disciplines. A student in this program is encouraged to elect a secondary area of concentration in one of the areas of engineering, natural science, or social science. Many options are available. The particular program will vary with the student's interests and needs. An advisor will be assigned to assist each student in designing a suitable plan. The student should ask the chairman of the Department of Mathematics for further information regarding this program. The mathematics coursework for two example study plans is given below.

Example A. For those whose secondary area of concentration is in economics, computer science, or industrial and systems engineering, a suggested plan includes:

Freshman

| | |
|---|----|
| English Composition | 5 |
| Math 263A, 263B, 263C Analyt. Geom. & Calc. | 15 |
| Arts and Sciences degree requirements (including language) and/or electives | |

Sophomore

| | |
|---|---|
| CS 253 Intro. to Dig. Comput. Programming for Engr. & Phys. Sciences | 5 |
| Math 340 Diff. Equations | 5 |
| Math 360 Interim. Analys. | 5 |
| Arts and Sciences degree requirements (including language) and/or electives | |

Junior

| | |
|---|-----|
| English Composition | 4-5 |
| Math 450A & 450B Theory of Statistics | 10 |
| Math 410 Matrix Theory | 5 |
| Arts and Sciences degree requirements (including language) and/or electives | |

Senior

| | |
|---|----|
| Math 460A & 460B Adv. Calc. | 10 |
| Math 444 Intro. to Numerical Analys. | 5 |

| | |
|---|---|
| Math 442 Theory of Linear Programming & Nonlinear Programming | 5 |
| Arts and Sciences degree requirements (including language) and/or electives | |

Example B. For those whose secondary area of concentration is in mechanical, civil, chemical, or electrical engineering, or in chemistry or physics, a suggested plan includes:

Freshman

| | |
|---|----|
| Math 263A, 263B, 263C Analyt. Geom. & Calc. | 15 |
| Math 250B Finite Math. | 5 |
| Arts and Sciences degree requirements (including language) and/or electives | |

Sophomore

| | |
|---|---|
| Math 340 Diff. Equations | 5 |
| Math 360 Interim. Analys. | 5 |
| Math 440 Vector Analys. | 5 |
| Arts and Sciences degree requirements (including language) and/or electives | |

Junior

| | |
|---|---|
| Math 410 Matrix Theory | 5 |
| Math 470 Appld. Complex Variables | 5 |
| Math 441 Fourier Analys. & Partial Diff. Equations .. | 5 |
| Arts and Sciences degree requirements (including language) and/or electives | |

Senior

| | |
|---|----|
| Math 444 Intro. to Numerical Analys. | 5 |
| Math 450A & 450B Theory of Stat. | 10 |
| OR | |
| Math 460A & 460B Adv. Calc. | 10 |
| Arts and Sciences degree requirements (including language) and/or electives | |

Preparation in Applied Physics

(Physics-Applied Major, major code #3332)

This four-year program offered in the Department of Physics leads to a BS degree in physics and allows an emphasis in experimental techniques together with engineering or other applied sciences. Such a program offers a broad basic education in several areas fundamental to present technology and is aimed at preparing students for many physics career opportunities in industry or government laboratories.

The particular sequence of courses will vary with the student's interests. The required courses in natural science, physics, and mathematics are the same as those for students preparing for advanced training in physics. Students may then elect a sequence of courses in physics together with engineering, chemistry, or biology which are more applied in nature. Some examples of courses which may be included are: EG 101 and 102 — Engineering Drawing, ChE 331 — Principles of Engineering Materials, CE 423 — Continuum Mechanics, CE 340 — Fluid Mechanics, ME 407 — Fundamentals of Nuclear Engineering, ChE 433 — Physical Metallurgy, Phys 475 — Advanced Lab, Phys 420 — Acoustics, Phys 471 — Solid State Physics and Phys 470 — Special Problems.

Interested students should consult the chairman of the Department of Physics for assistance in planning their programs.

Preparation for Botanically Related Disciplines

Although no specific curricula (other than preparation for advanced training in botany; environmental biology-botany emphasis; forestry; horticulture; field biology; agribusiness; and cell biology) are offered in these disciplines, the Department of Botany can recommend courses or curricula to students interested in pursuing careers in agronomy, marine biology, medical mycology, landscape architecture, or plant breeding. Interested students should contact the undergraduate chairman in the Department of Botany for details.

Students interested in conservation, natural resources, wildlife management, environmental quality control, or similar programs should read the descriptions under Preparation for Environmental Biology (Botany Emphasis) or Field Biology.

Minor in Business Administration

A large number of Arts and Sciences majors, including majors in every department, pursue business careers. To assist them in furthering their employment goals, the College of Arts and Sciences and the College of Business Administration have devised a minor in business administration, completion of which is formally indicated on a student's permanent record. The requirements for this minor consist of 28 or more credit hours, including at least one course from each of the following: statistics, accounting, economics, production, finance, marketing and management. Courses recommended for the completion of the minor include Psy 121 (or QM 201 or Econ 381, or an equivalent) (4), Acct 101 (4), Econ 101 (4), BA 310 (4), Fin 325 (4), Mkt 301 (4), and Mgt 200 or 300 (4).

Arts and Sciences majors or prospective majors who wish to enroll in this program should register their names with the College of Arts and Sciences Office.

Preparation in Creative Writing

(English-Creative Writing Major, major code #5232)

By combining selected creative writing courses with the regular English major, the student may complete a special program in creative writing. For the specific requirements, see "English Language and Literature" in the *Courses of Instruction* section of this catalog.

Preparation in Cell Biology

(Botany Major, major code #2118)

The Department of Botany offers a program in cell biology for those students interested in pursuing a profession in the broad area of biology at the cellular or molecular level. This program can provide a sound basis for a technical career or for further study at the

graduate level with a view to a career in research or teaching. As well as following closely the coursework outlined here and the requirements of the College of Arts and Sciences, students entering this program will be encouraged to elect additional coursework from the general field of biology appropriate to their chosen interest. Individual students should plan their programs in close consultation with departmental advisors.

Freshman

| | |
|--|----|
| Bot 110 Intro. to Bot. | 6 |
| Bot 111 Intro. to Bot. | 6 |
| Eng 172 Contemp. Writing | 5 |
| Zool 151 Intro. to Zoology | 6 |
| Chem 141 Fundamentals of Chem. | 5 |
| Chem 142 Fundamentals of Chem. | 5 |
| Chem 143 Quant. Analys. | 5 |
| Math 263A, 263B Analyt. Geom. & Calc. | 10 |

Sophomore

| | |
|---|----|
| Bot 309 Plant Systematics | 5 |
| Zool 325 Genetics | 5 |
| Chem 305, 306, 307, 308, 309 Organic | 13 |
| Phys 201, 202, 203 Intro. Phys. | 12 |
| Eng 280 Expos. Writing | 4 |
| Arts and Sciences degree requirements and/or electives. | |

Junior-Senior

| | |
|--|-----|
| Bot 312 Plant Anatomy | 5 |
| Bot 404 Research | 4 |
| Bot 405 Discussions About Biol. | 2 |
| Bot 424 Plant Physiology | 6 |
| Bot 426 Physiological Plant Ecology | 5 |
| Bot 431 Cytology | 5 |
| Bot 475 Plant Speciation and Evolution | 3 |
| English Composition | 4-5 |
| Zool 460 Animal Physiology | 4 |
| Micr 411 General Microbiology | 6 |
| Chem 351 Physical Chemistry | 4 |
| Chem 490, 491, 492 Intro. Biochemistry | 9 |
| Arts and Science degree requirements and/or electives. | |

Preparation for Criminology

(Sociology-Criminology Major, major code #4253)

The Criminology Special Curriculum is designed for those students who would like to work in some aspect of the criminal justice system (e.g., probation, parole, or law enforcement) yet wish to receive a liberal arts education. Students completing the program may wish to consider employment in criminal justice or further study in law, criminology, or criminal justice. Students already employed in the criminal justice system may qualify for Law Enforcement Education Program financial aid. Students who complete the program will receive a degree in sociology with the emphasis in criminology noted.

Students are encouraged to enter the program as freshmen to facilitate completion in four years.

Freshman

| | |
|--|-----|
| English Composition | 5 |
| Soc 101 Intro. to Soc. | 5 |
| Psy 101 Gen. Psych. | 5 |
| Criminology Elective Group* | 4-8 |
| (See below) | |
| Arts and sciences degree requirements including language and/or electives. | |

Sophomore

| | |
|--|-----|
| Soc 361 Deviant Behavior | 4 |
| Psy 337 Social Psych. of Justice | 5 |
| Soc 362 Criminology | 4 |
| Criminology Elective Group | 4-8 |
| Arts and Sciences degree requirements including language and/or electives. | |

Junior

| | |
|--|-----|
| English Composition | 5 |
| Soc 350 Social Statistics | 4 |
| OR | |
| Soc 351 Research Techniques | 4 |
| Soc 363 Juvenile Delinquency | 4 |
| Soc 364 Penology | 4 |
| Soc 403 Devel. Soc. Thought | 4 |
| OR | |
| Soc 404 Modern Soc. Theory | 4 |
| Criminology Elective Group | 4-8 |
| Arts and Sciences degree requirements including language and/or electives. | |

Senior

| | |
|--|-----|
| Criminology Elective Group | 4-8 |
| Student must complete 10-15 hours from the following: | |
| Psy 332 Abnormal Psych. | 5 |
| Phil 442 Phil. of Law | 5 |
| PolS 403 Judicial Process | 4 |
| PolS 404 Civil Liberties | 4 |
| PolS 409 Law Enforcement | 4 |
| PolS 471 Legal Theo. & Social Probs. | 4 |
| Arts and Sciences degree requirements including language and/or electives. | |
| Total hours required: Minimum 65; Maximum 86. | |

*Student must complete four sociology courses from the Criminology Elective Group which consists of Soc 201, 211, 329, 331, 365, and 464 for a total of 16 hours.

Preparation for Dentistry

No specific area for the major is required by the dental colleges or by Ohio University. The student must present preparation in various basic sciences, and many students do complete a major in one science or a dual major in two sciences. Many dental schools now require at least a year of behavioral and social sciences as well as a year of English. (Refer to courses recommended to fulfill these requirements following the Zoology Major Program, code #2501.)

Currently, most dental schools are selecting students with bachelor's degrees; a very limited number who have completed three years and have met the degree *in absentia* privilege requirements are admitted.

All dental school applicants are required to take the Dental Aptitude Test, offered during the academic year previous to the time the student plans to enroll in dentistry, preferably not later than the fall testing date.

(Chemistry-Pre dentistry Major,
major code #3312)

Pre dentistry students wishing to major in chemistry should follow the program for the premedical chemistry major.

(Zoology-Pre dentistry Major,
major code #2501)

The following sequence of courses is required for pre dentistry students majoring in zoology. Additional selections from the recommended electives listed after the junior-senior program are encouraged. Students who elect the degree *in absentia* option must complete a minimum of 36 hours in zoology/microbiology; those who elect the four-year program must complete a minimum of 45 hours in zoology/microbiology.

Freshman

| | |
|---|----|
| Chem 141 Fundamentals of Chem. | 5 |
| Chem 142 Fundamentals of Chem. | 5 |
| Chem 143 Quant. Analys. | 5 |
| Eng Composition | 5 |
| Math 163A-B Intro. to Calc. | 8 |
| OR | |
| Math 263A-B Analyt. Geom. & Calc. | 10 |
| Zool 150 and 151 Intro. to Zool. | 12 |
| Arts and Sciences college degree requirements and/or electives. (English and comparative arts are recommended.) | |

*Of these choices, this is recommended.

Sophomore

| | |
|---|----|
| Chem 301-302-303-304 Organic (short)** | 9 |
| OR | |
| Chem 305-306-307-308-309 Organic (long) | 13 |
| Zool 303 Compar. Vertebrate Anat. | 6 |
| Zool 325 General Genetics | 5 |
| Arts and Sciences college degree requirements and/or electives. | |

**Of the choices, this is recommended, to be followed by Zool 463 in the senior year.

Junior-Senior

| | |
|---|-----|
| English Composition | 4-5 |
| Phys 201-202-203 Intro. | 12 |
| Zool 448 Cell Physiology | 4 |
| OR | |
| Zool 460 Animal Physiology | 5 |
| Zoology electives | 4 |
| Zool 463 Cell Chem. | 4 |
| OR | |
| Chem 490 & 491 Intro. to Biochemistry | 6 |
| OR | |
| Chem 489 Basic Biochem. | 4 |
| Arts and Sciences college degree requirements and/or electives. | |
| Recommended electives: | |
| Recommended zoology/microbiology electives: Micr 411; Zool 404, 406, 408 | |
| Recommended behavioral and social sciences: Anth 270 or 370; Psy 131, 173, 332, 336 | |
| Recommended humanities: comparative arts; philosophy courses | |

Preparation for the
Study of the Environment

The study of the environment includes the physical nature of the planet as well as plant and animal interactions involving space, land, water, and other living organisms. Within the College of Arts and Sciences, the departments of Botany, Chemistry, Geography, Geology, and Zoology and Microbiology offer programs for preparation in the study of the environment. These programs allow students to develop a fundamental knowledge of the nature of basic environmental parameters, a sense of the complex interactions of living organisms, including man, on those parameters and a basis for approaching solutions to problems resulting from this impact. A student choosing to major in the

study of the environment at Ohio University should choose a discipline for intensive investigation (botany, chemistry, geography, geology, zoology and microbiology) and, in consultation with the advisor in that department, develop a program of study to meet the particular goals of that student.

Degree-Granting Programs in the Study of the Environment

The following programs are offered. The requirements for each are listed below.

1. Preparation for Environmental Biology (Botany Emphasis)
2. Preparation for Environmental Biology (Zoology Emphasis)
3. Preparation for Environmental Chemistry
4. Preparation for Environmental Geography
5. Preparation for Environmental Geology

1. Department of Botany

Preparation for Environmental Biology
(Botany-Environmental Biology Major,
major code #2113)

The Department of Botany offers a preprofessional program designed to give the student a broad base for developing a career in biology with an emphasis on the environmental aspects of the science. Although students who elect this program may find it to be satisfactory for their own goals, some additional training in the specialized fields should be anticipated. Such postgraduate work may be obtained at schools of conservation and wildlife management, schools of forestry, graduate colleges in ecology, or at similar institutions. Students whose main interests are toward careers in conservation, natural resources, forestry, environmental quality control, and ecology should find this program of value. Because of the high degree of professionalism required in these fields, the need for training beyond this program cannot be overemphasized. A student who elects this curriculum should consult the undergraduate chairman in the Department of Botany immediately to be assigned to an advisor. No substitutions should be made in this program without first consulting with such advisor.

Freshman

| | |
|--------------------------------------|---|
| Bot 110 Intro. to Bot. | 6 |
| Bot 111 Intro. to Bot. | 6 |
| Zool 151 Intro. to Zool. | 6 |
| Chem 141 Fundamentals of Chem. | 5 |
| Chem 142 Fundamentals of Chem. | 5 |
| Chem 143 Quant. Analysis. | 5 |
| English Composition | 5 |
| Math 163A, 163B Intro. to Calc. | 8 |

OR

| | |
|--|----|
| Math 263A**, 263B** Analyt. Geom. & Calc. | 10 |
|--|----|

(Note: Students should be certain to see an advisor before making a choice of math sequence.)

Arts and Sciences degree requirements (including language) and/or electives.

**Recommended

Sophomore

| | |
|--|---|
| Bot 247 Vegetation of North Am. | 4 |
| Bot 309 Plant Systematics | 5 |
| Phys 201, 202, Intro. | 8 |
| Chem 301, 302 Organic | 8 |
| Arts and Sciences degree requirements (including language) and/or electives. | |

Junior-Senior

| | |
|---|-----|
| Bot 310 Biol. of Fungi | 5 |
| Bot 331 Plant Cytogenetics | 3 |
| OR | |
| Zool 325 Genetics | 5 |
| Bot 404 Undergraduate Research | 2 |
| OR | |
| Bot 405 Discussions about Biol. | 2 |
| Bot 410 Soil Microbiology | 4 |
| Bot 420 Fresh-water Algae | 5 |
| Bot 424 Plant Physiology | 6 |
| Bot 425 Plant Ecology | 5 |
| Bot 426 Physiological Plant Ecology | 5 |
| Bot 475 Plant Speciation and Evolution | 3 |
| Micro 411 Gen. Microbiology | 6 |
| English Composition | 4-5 |

Arts and Sciences degree requirements (including language) and/or electives from the following courses:

| |
|---------------------------------------|
| Bot 248 Trees and Shrubs |
| Bot 307 Biology of Algae and Mosses |
| Bot 308 Morphology of Vascular Plants |
| Bot 312 Plant Anatomy |

In addition to the formal program outlined above, the following general requirements should be included in the environmental biology curriculum (students should be certain to see an advisor for appropriate courses to be selected):

| | |
|--------------------------------------|----|
| Geography | 12 |
| Geology | 8 |
| Economics (including 313) | 12 |
| Computer Science and Statistics | 10 |

2. Department of Zoology and Microbiology

Preparation for Environmental Biology
(Zoology-Environmental Biology Major,
major code #2509)

The program in environmental biology offered through the Department of Zoology and Microbiology provides a background for students preparing for graduate school or careers in animal ecology, evolutionary biology, wildlife biology, freshwater biology, marine biology, conservation, environmental science, animal propagation and care, natural resource management, pollution biology, and others. Selection of courses to fit individual curriculum needs and career goals can be made in the junior-senior program in consultation with the major advisor. It is recommended that the course schedule for the first two years be followed closely.

Freshman

| | |
|---|----|
| Zool 150 Intro. to Zool. | 6 |
| Zool 151 Intro. to Zool. | 6 |
| Bot 111 Plant Biol. | 5 |
| Chem 141-142 Fundamentals of Chem. | 10 |
| Chem 143 Quant. Analysis. | 5 |
| English Composition | 5 |

Psy 121 Elem. Stat. 5
Arts and Sciences college degree requirements and/or electives.

Sophomore

Chem 301-302 Organic 6
Math 163A-163B Intro. to Calc. 8
OR
Math 263A-263B Analyt. Geom. & Calc. 10
Phys 201-202 Intro. to Phys. 8
Zool 325 Genetics 5
Arts and Sciences college degree requirements and/or electives.

Junior-Senior

English Composition 4-5
Zool 460 Animal Physiology 5
Zool 475 Animal Ecology 3
Zool 476 Ecology Laboratory 2
Zool 477 Population Biol. 4
Zool 479 Evolution 4

Plus at least 16 hours from among the following courses or others dealing with the environment in consultation with the advisor:

Micro 211-212 Environmental Microbiology
Micro 411 Gen. Microbiology
Zool 271 Field Ornithology
Zool 429 Marine Biology
Zool 430 Invertebrate Zoology
Zool 431 Limnology
Zool 432 Field Hydrobiology
Zool 435 Gen. Entomology
Zool 439 Field Entomology
Zool 471 Ornithology
Zool 472 Herpetology
Zool 473 Ethology
Zool 474 Mammalogy
Zool 478 Pop. Bio. Lab.
Zool 485 Undergrad. Research

Other Arts and Sciences college requirements and/or electives to be considered.

Social Sciences: BA 465; BusL 370; Econ 101, 102, 213, 313; Geog 140, 141, 142, 201, 242, 311, 312, 327, 422, 429

Humanities: GK 127; Phil 216, 416

Science: Zool 433, 442; Bot 308, 309, 420, 424, 426; ChE 460; CE 450, 451, 452, 455, 456, 458; Geol 211, 270, 291, 310, 340, 406, 448; InCo 103; IndT 336; QM 420; ME 470

3. Department of Chemistry

Preparation for Environmental Chemistry

(Chemistry-Environmental Major, major code #3315)

Students preparing for careers in environmental chemistry should pursue the regular BS or AB degree in chemistry and take some of the following environmentally related courses as electives. The Chemistry Department has advisors in environmental chemistry to assist students plan their studies in the field.

The major requirement for the BS degree includes the following: 141-142-143; 305-306-307; 308-309; 400; 453-454-455; 456-457; 476; 484-485; and three additional hours (other than 499) above 400. Extradepartmental requirements include Math 263A-B-C, Phys 251-252-253, and Eng 172, which should be completed by the end of the second year. The BS degree program is chosen by students contemplating entrance into graduate programs in chemistry.

The major requirement for the AB degree includes the following: 141-142-143; 301-302 or 305-306-307; 303-304 or 308-309; 325 or 484-485; 351 or 453-454-455, and 476. A full year's work is required in at least one of the following fields: analytical (143-484-485); organic (305-306-307), or

physical (453-454-455). Eng 172 is also required.

The following environmentally related electives are suggested courses to choose from: Bot 101 or Zool 150; Bot 102, 103, 425, 426; Chem 330, 479, 483, 490; Geol 201, 291A, 291E, 291I, 407, 432, 480, 481; ISE 304; Micr 211, 212, 411, 412; Zool 151, 475, 476, 477, 479; BusL 255, 370, 475; Econ 313; Geog 201, 327, 422; Psy 335; Soc 340.

4. Department of Geography

Preparation for

Environmental Geography

(Geography-Environmental Major, major code #4232)

Students preparing for a career in environmental geography should pursue a BS degree with a major in geography. Students planning to follow this curriculum should consult the chairman of the Department of Geography as soon as they elect this program so that they can be assigned to advisors.

Students in this program are required to complete a minimum of 192 hours, including the Arts and Sciences degree requirements in foreign languages and humanities; the University English composition requirement; and the courses listed below:

Geog 201 Environ. & Man 4
Geog 327 Resource Mgt. & Conservation 4
Geog 331 Geog. of Agricultural Activity 4
In addition, environmental geography students are required to take:
Geog 301 Adv. Phys. Geog. 4
Geog 311 Elements of Meteorology 4
Geog 422 Population Geog. 4
Geography electives of interest are:
Geog 230 Intro. to Urban Geog. 4
Geog 260 Map Reading & Interp. 4
Geog 365 Air-Photo Interp. 4
Geog 430 Adv. Urban Geog. 4

Choose at least 18 hours from either the biological sciences or earth sciences groups below. The student should take at least eight hours in one subject area and at least two different subject areas. This will satisfy the natural sciences degree requirement.

Biological Sciences:

Bot 101 OR Zool 150 Prin. of Biol. 6
Bot 102 Plant Biol. 5
Bot 103 Biol., Plants & Man 4
Bot 425 Ecology 5
Bot 426 Adv. Ecology 5
Micr 211 Environ. Microbiology 3
Micr 212 Environ. Microbiology Lab. 2
Zool 103 Human Biol. 4
Zool 475 Animal Ecology 3
Zool 476 Ecology Lab. 2

Earth Sciences:

Geol 101 Earth Materials & Struct. 4
Geol 102 Surface Proc. & Environ. Geol. 4
Geol 201 Man & Phys. Environ. 4
Geol 211 Intro. Oceanography 3
Geol 291 Selected Topics in Geol. 2
Geol 330 Prin. of Geomorphology 5
Geol 432 Origin & Classification of Soils 4
Geol 480 Hydrology I 4
Geol 481 Hydrology II 4

Choose at least 18 hours from the list below. This should include at least hours in one subject area and at least two different subject

areas. This will satisfy the social sciences degree requirement.

| | |
|-----------------------------------|--------|
| BusL 255 Law & Society | 4 |
| BusL 370 Environ. Law | 4 |
| Econ 101 Prin. | 4 |
| Econ 102 Prin. | 4 |
| Econ 303 Microeconomics | 4 |
| Econ 304 Macroeconomics | 4 |
| Econ 313 Econ. of Plannings | 3 or 4 |
| Psy 355 Environ. Psych. | 4 |
| Soc 340 Population Analys. | 4 |

5. Department of Geology

Preparation for Environmental Geology

(Geology-Environmental Major,
major code #3323)

The preprofessional program in environmental geology, offered by the Department of Geology, is designed to provide the student with broad training in preparation for a career in conservation, natural resource management, land-use planning, and environmental quality control. In most instances, students electing this degree option should anticipate further training at the graduate level. It is of utmost importance that students enrolling in this program consult the undergraduate advisor in the Department of Geology before planning their schedule of coursework. The program permits development of individualized curriculum needs during the junior and senior years. However, the outlined course schedule should be followed closely during the first two years of study.

Freshman

| | |
|---|---|
| Geol 101 Earth Materials & Struct. | 4 |
| OR | |
| Geol 283 Geol. for Engineers | 5 |
| Geol 330 Prin. of Geomorphology | 5 |
| Geog 201 Environ. & Man | 4 |
| Bot 110 or Zool 150 | 6 |
| Chem 141 Fundamentals of Chem. | 5 |
| Chem 142 Fundamentals of Chem. | 5 |
| Chem 143 Quant. Analys. | 5 |
| Eng 172 Contemp. Wrtng. Skills | 5 |

Sophomore

| | |
|---|----|
| Geol 211 Intro. Oceanography | 3 |
| Geol 310 Rocks & Minerals | 5 |
| Geog 230 Intro. to Urban Geog. | 4 |
| Math 163 A-B Intro. to Calc. | 8 |
| OR | |
| Math 263 A-B Analyt. Geom. & Calc. | 10 |
| Phys 201 Intro. to Phys. | 4 |
| Phys 202 Intro. to Phys. | 4 |

Junior-Senior

| | |
|---|-----|
| English Composition | 4-5 |
| Geol 353 Prin. of Stratigraphy | 3 |
| Geol 356 Hist. Geol. | 5 |
| Geol 360 Struct. Geol. | 4 |
| Geol 407 Topog. Map & Aerial Photo Interp. | 4 |
| Geol 432 Origin & Classification of Soils | 4 |
| Geol 480 Hydrogeology I. | 4 |
| Geog 327 Geog. Perspective on Resource Mgt. & Conservation | 4 |

In addition to the program requirements outlined above, the student should select addi-

tional coursework from either of the following groups:

| | |
|---|---|
| Bot 425 Ecology | 5 |
| Bot 426 Adv. Ecology | 5 |
| Zool 151 Intro. to Zool. | 6 |
| Zool 475 Animal Ecology | 3 |
| Zool 477 Pop. Biol. | 4 |
| Chem 301 Organic Chem. | 3 |
| Chem 302 Organic Chem | 3 |
| Chem 325 Instr. Methods of Analys. | 4 |
| Chem 479 Radiochem. | 4 |
| Chem 330 Toxicology | 4 |

Other electives recommended for consideration by the student include: BA 465; BusL 370; ChE 460; CE 450, 451, 452, 455, 456, 458; CS 253; Econ 101, 102, 213; Geog 311, 312, 422, 429; InCo 103; ISE 305; QM 420; ME 470.

Field Biology

(Botany-Field Biology Major,
major code #2115)

The program in field biology offered through the Department of Botany is designed to prepare students for professions as park naturalists and in outdoor education, outdoor nature programs, conservation, and others. The program is not designed to prepare students for advanced training in more specialized fields. It should be emphasized that students who enter this program, if they later decide to pursue advanced training in biology, will have to acquire additional background in physics, math, and chemistry. Students anticipating entering graduate school in biologically oriented disciplines should elect one of the preprofessional programs in botany or the traditional botany program. Students wishing to include a minor in business administration with this program should consult with their advisors for details.

Freshman

| | |
|---|---|
| Bot 110 Intro. to Bot. | 6 |
| Bot 111 Intro. to Bot. | 6 |
| Zool 151 Intro. to Zool. | 6 |
| Chem 121 Principles of Chem. | 4 |
| Chem 122 Principles of Chem. | 4 |
| Chem 123 Principles of Chem. | 4 |
| English Composition | 5 |
| Arts and Sciences degree requirements and/or electives. | |

Sophomore

| | |
|--|----|
| Geog 101 Phys. Geog. | 5 |
| Geog 201 Environ. & Man | 4 |
| Bot 247 Vegetation of North Am. | 4 |
| Bot 248 Trees & Shrubs | 5 |
| Bot 307 Biol. of Algae & Mosses | 6 |
| Phys 201, 202, 203 Introduction | 12 |
| Arts and Sciences degree requirements and/or electives | |

Junior-Senior

| | |
|---|---|
| Geog 311 Meteorology | 5 |
| Geol 101 Earth Materials | 4 |
| Geol 102 Surface & Environ. | 4 |
| Bot 308 Morphology of Vascular Plants | 6 |
| Bot 309 Plant Systematics | 5 |
| Bot 310 Biol. of Fungi | 5 |
| Bot 425 Ecology | 5 |
| English Composition | 5 |
| Zool 371 Ornithology | 4 |
| Zool 439 Field Entomology | 5 |
| Zool 474 Mammalogy | 6 |
| Zool 475, 476 Ecology & Lab | 5 |
| Bot 404 Research | 4 |
| Arts and Sciences degree requirements and/or electives. | |

Preparation for Forestry(Botany-Preforestry Major,
major code #2112)

Although no professional forestry program is offered at Ohio University, the Department of Botany at Ohio University and the School of Forest Resources of the North Carolina State University at Raleigh, North Carolina offer a 2 + 2 forestry program. Students in this program complete their freshman and sophomore years at Ohio University and then apply for transfer to North Carolina State for their junior and senior years. Upon satisfactory completion of one of six curricula, the bachelor of science degree is conferred by North Carolina State University. The six curricula are: conservation, forestry, natural resource recreation management, recreation and park administration, pulp and paper science and technology, and wood science and technology. The course of study for the freshman and sophomore years at Ohio University is:

Freshman

| | |
|--|----|
| Bot 110 Intro. to Bot. | 6 |
| Bot 111 Intro. to Bot. | 6 |
| English Composition | 5 |
| Math 263A*, 263B*, 263C* Analyt. Geom. & Calc. ... | 15 |
| InCo 103 Pub. Spkng. | 4 |
| Phys Ed | 3 |
| Arts and Sciences degree requirements (including language) and/or electives. | |

Sophomore

| | |
|--|---|
| Chem 141* Intro. College Chem. | 5 |
| Chem 142* Chem. Energetics | 5 |
| Chem 143* Quant. Analys. | 5 |
| Phys 201* & 202* Intro. to Phys. | 8 |
| Econ 101 Princ. | 4 |
| Econ 303 Microecon. | 4 |
| Econ 304* Macroecon. | 4 |
| (Or general elective) | |
| Bot 248 Trees & Shrubs | 5 |
| (Or botany elective) | |
| Phys. Ed. | 3 |
| Arts and Sciences degree requirements (including language) and/or electives. | |

*For the Recreation and Parks Administration program the following substitutions are recommended: 1) Math — 163A, 163B and ISE 304; 2) Chemistry 121 and 122; 3) Physics — none required, substitute physical science elective; 4) Soc 101 could be added for a So. Sci. Hum. Elec. or Econ 304.

Students transferring to North Carolina State University must have an overall C+ average on all college-level work and be in good standing with Ohio University. If admitted, the transfer student's record will be evaluated to determine the amount of credit that can be transferred and applied toward degree requirements at N. C. State. The evaluation must be approved by the dean of the School of Forest Resources.

Ohio University also offers a cooperative program with Duke University in the areas of environmental management and forestry. The student will earn the bachelor's and master's degrees in five years, spending three years at Ohio University and two years at Duke's School of Forestry and Environmental Studies. The student must fulfill all the distributional (general degree) requirements by the end of the junior year. The first year's work at Duke will complete the undergraduate degree

requirements and the BA or BS will be awarded *in absentia* by Ohio University at the end of the first year at Duke. Duke will award the professional degree of master of forestry or master of environmental management to qualified candidates at the end of the second year.

The major program emphases at Duke are forest resource production, resource science, and resource policy and economics; however, programs can be tailored with other individual emphases. Students begin the program at Duke with a one-month session of field work in natural resource measurements in August. The student must complete a total of 60 units, which generally takes four semesters.

Some students may prefer to complete the bachelor's degree before undertaking graduate study at Duke. The master's degree requirements for these students are the same as those for students entering after the junior year, but the 60-unit requirement may be reduced for relevant undergraduate work of satisfactory quality already completed. All credit reductions are determined individually and consider both the student's educational background and objectives.

Students may also prepare for graduate training in professional forestry schools other than North Carolina State University or Duke University by following and completing the curriculum "Preparation for Advanced Training in Botany" or the curriculum "Preparation for Horticulture" presented elsewhere in this section (Arts and Sciences). Students interested in preforestry training at Ohio University should contact the undergraduate chairman in the Department of Botany for a suggested curricular outline and assignment to an advisor.

Preparation for Government Foreign Service(History-Pre-Foreign Service Major,
major code #4212)(Political Science-Pre-Foreign Service Major,
major code #4202)

Students desiring to prepare for the foreign service officer examinations, which are given yearly, are advised to acquire as broad an education as possible. Facility in written and spoken English; competency in a foreign language; and a good background in economics, history, political science, business, or public administration are essential. More detailed information about foreign service officer examinations, including sample questions from previous examinations, may be obtained from the Political Science Department.

Preparation for Horticulture(Botany-Horticulture Major,
major code #2114)

The Department of Botany offers a preprofessional program designed to provide students with a broad base for developing a career in horticulture, agronomy, or agricultural sci-

ences. Although students who elect this program may find it useful for their own goals, it must be anticipated that additional training at the graduate level will be required in specialized fields. Such postgraduate work is obtainable at schools offering advanced degrees in horticulture, agriculture, and related disciplines. Because of the high degree of professionalism required in these fields the need for additional training cannot be overemphasized. As the following program provides nearly all of the basic groundwork for advanced work, no substitutions should be made.

Students wishing to include a minor in Business Administration with this program should consult with their advisors for details.

Freshman

| | |
|---|---|
| Bot 110 Intro. to Bot. | 6 |
| Bot 111 Intro. to Bot. | 6 |
| Chem 141 Fundamentals of Chem. | 5 |
| Chem 142 Fundamentals of Chem. | 5 |
| Chem 143 Quant. Analys. | 5 |
| English Composition | 5 |
| Math 163 A, 163B Intro. to Calc. | 8 |
| Arts and Sciences degree requirements and/or electives. | |

Sophomore

| | |
|---|---|
| Bot 248 Trees & Shrubs | 5 |
| Bot 250 Econ. & Horticultural Plants | 4 |
| Bot 252 Basic Horticulture | 5 |
| Bot 308 Morphology | 6 |
| Chem 301, 302, 303, 304 | 9 |
| Zool 151 Intro. to Zool. | 6 |
| Arts and Sciences degree requirements and/or electives. | |

Junior-Senior

| | |
|---|-----|
| Bot 309 Plant Systematics | 5 |
| Bot 310 Biol. of Fungi | 5 |
| Bot 315 Greenhouse Mgt. & Techn. | 2 |
| Bot 331 Plant Cytogenetics | 3 |
| Bot 410 Soil Microbiology | 5 |
| Bot 412 Plant Pathology | 5 |
| Bot 424 Plant Physiology | 6 |
| Bot 425 Ecology | 5 |
| English Composition | 4-5 |
| Zool 435 Gen. Entomology | 6 |
| Phys 201, 202 Intro. | 8 |
| Zool 325 Genetics | 5 |
| Arts and Sciences degree requirements and/or electives. | |

Preparation for Law

(History-Prelaw Major,
major code #4214)

(Political Science-Prelaw Major,
major code #4203)

A student in the College of Arts and Sciences, who plans to enter law school, normally completes the specific requirements for the bachelor of arts degree. No special curriculum is prescribed. The prelaw student may complete a major in the area of his or her principal interest. The student is advised to select courses from as many of the following as possible: English composition and literature and American literature; history, with a preference for English and American; political science; economics; sociology; a laboratory science; mathematics; philosophy; ethics; logic; accounting; psychology; and a foreign language. Courses in speech and training in expression, as well as activities that develop the capacity

for independent thought and action, are recommended.

The Ohio Supreme Court has ruled that a student entering law school must be able to show possession of an undergraduate degree from an approved college if he or she wishes to take the Ohio Bar Examination. Law schools in the state of Ohio require the degree of all entering students regardless of the state in which they plan to take the bar examination.

The degree *in absentia* privilege is available to students who do not plan to seek admission to an Ohio law school. A student who has completed 144 quarter hours at Ohio University with a point-hour ratio of 2.0 or above on all hours attempted and who has satisfied the requirements for the AB or BS degree may obtain the degree after completing, at an accredited school of law, a full year's work of the quality prescribed for a bachelor's degree at Ohio University, provided he or she is eligible for advancement without condition to the second year of law school. Prior to entering the school of law, the student must secure a statement in writing from the dean giving the *in absentia* privilege.

Preparation in Linguistics

The undergraduate student may prepare for graduate work in linguistics in any of several ways, one of which is application for admission into the Bachelor of General Studies Program (see entry in the *Special Programs* section of this catalog). If accepted, he or she may work toward the BGS degree following a program planned to give the strongest preparation for graduate study in linguistics that the resources of the University allow. Or, the student may work within one of the departments permitting programs that are linguistically oriented. See, for example, the programs in English, modern language, and hearing and speech sciences. Depending upon the kind of linguistics the student wishes to study, he or she may want to consider an undergraduate major in mathematics, psychology, or philosophy. Students interested in anthropological linguistics may want to consider the various course offerings in anthropology and those associated with the Center for International Studies programs: courses in African languages and particular aspects of African culture, or courses in Southeast Asian languages and cultures. (See the entry, "Center for International Studies," in the *Special Programs* section of this catalog.)

Inquiries concerning the problem of planning undergraduate programs with emphasis upon linguistics may be directed to the chairman of the Department of Linguistics, College of Arts and Sciences.

Preparation for Medical Technology

(Zoology-Medical Technology Major,
major code #2123)

This program in medical technology pre-

pares students for work in hospital laboratories, public health bureaus, and other laboratories concerned with medical diagnosis and investigation. It leads to a bachelor of science degree in zoology and certification by the American Society of Clinical Pathologists.

The Ohio University-hospital school of medical technology affiliation for training of medical technologists fulfills the requirements established by A.M.A. and A.S.C.P. and affords the student an opportunity to earn the bachelor's degree. After completing (1) a minimum of 144 quarter hours with at least a 2.0 point-hour ratio in the major and in all hours attempted and (2) all area requirements for the baccalaureate the student is eligible to apply for admission to one of several affiliated hospital schools for internship. Upon satisfactory completion of the 12-month internship, the student will receive the bachelor of science degree from Ohio University.

Approval may occasionally be granted for completion of the hospital internship at hospitals other than those affiliated with Ohio University if such hospitals have A.S.C.P.- and A.M.A.-approved programs in medical technology and if, for reasons of location or other factors, this would better meet the needs of the student. A student seeking such approval is required to present a copy of the hospital's program of study to the Department of Zoology and Microbiology for evaluation. If this substitute program is approved, the student becomes eligible for the degree *in absentia* privilege.

The student is urged to consult his or her advisor frequently during the preinternship period. Early in the fall quarter preceding internship, specific information about applying to an affiliated school of medical technology should be obtained from the medical technology advisor.

A student who transfers from another program or institution (including branch campuses of Ohio University) cannot normally expect to complete the preinternship requirements in three years unless the need to make up courses is minimal.

Affiliated hospitals vary with respect to fees assessed. A student requiring financial assistance may apply for a Kellogg Foundation or other loan through the Office of Student Financial Aids and Scholarships.

Freshman

| | |
|-------------------------------------|---|
| Chem 141 Fundamentals of Chem. | 5 |
| Chem 142 Fundamentals of Chem. | 5 |
| Chem 143 Quant. Analys. | 5 |
| English Composition | 5 |
| Math 113 Algebra | 5 |

OR

| | |
|---|---|
| Math 163A Intro. to Calc.** | 4 |
| Zool 150 Intro. to Zool. | 6 |
| Zool 151 Intro. to Zool. | 6 |
| Arts and Sciences college degree requirements and/or electives. | |

**Of the choices, this is recommended.

Sophomore

| | |
|------------------------------------|---|
| Chem 301-302 Organic (short) | 6 |
|------------------------------------|---|

| | |
|---|---|
| Chem 325 Instr. Methods of Analys. | 4 |
| Zool 300 Elements of Anat. & Histology | 6 |
| Zool 325 Gen. Genetics | 5 |
| Zool 345 Human Physiology | 4 |
| Arts and Sciences college degree requirements and/or electives. | |

Junior

| | |
|---|-----|
| English Composition | 4-5 |
| Micr 411 Gen. Microbiology | 6 |
| Micr 415 Immunology | 6 |
| Zool 463 Cell Chem. | 4 |
| Zool 464 Physiological Chem. Lab. | 4 |
| Arts and Sciences college degree requirements and/or electives. | |

PLUS AT LEAST 15 HOURS FROM AMONG THE FOLLOWING COURSES:

| | |
|--|----------|
| Micr 412 Microbiological Techn. | 4 |
| Micr 413 Pathogenic Bacteriology | 6 |
| Micr 414 Virology | 4 |
| Zool 305 Histological Techn. | 3 |
| Zool 326 Lab. Genetics | 4 |
| Zool 346 Human Physiology Lab. | 2 |
| Zool 428 Human Genetics | 3 |
| Zool 441 Parasitology | 6 |
| Mgt 420 Admin. of Personnel | 4 |
| CS 150 Comput. Science, Survey | 3 |
| Phys 201-202 Intro. to Physics | 4-4 |
| IndT 336 Bioelectronics | 3 |
| Math 263A Analyt. Geom. & Calc.* | 5 |
| Chem 351 Phys. Chem. | 4 |
| Psy 121 Elem. Stat. for Behavioral Sciences | 5 |
| Chem 479 Radiochemistry | 4 |
| Chem 303 Organic Chem. Lab. | 1 |
| Chem 304 Organic Chem. Lab. | 2 |
| A total of 48 hours of medical technology coursework is taken at an affiliated hospital. A typical program includes: | |
| Hematology | 8 hours |
| Bacteriology and Serology | 13 hours |
| Parasitology | 2 hours |
| Clinical Chemistry | 17 hours |
| Immunohematology | 4 hours |
| Urinalysis | 3 hours |
| Radioisotopes | 1 hour |

*Credit is not recognized for both Math 163A and 263A.

Preparation for Medicine

Most medical colleges require the bachelor's degree for admission; all others require a minimum of three academic years.

No specific area for the major is required by the medical college or by Ohio University in undergraduate preparation for medicine. The student must present preparation in various basic sciences, and many students do complete a major in one science or a dual major in two sciences.

For most medical schools, the requirements for admission include general chemistry; quantitative analysis; organic chemistry, including laboratory; mathematics; physics; general zoology; comparative vertebrate anatomy, and embryology. Many medical schools now require or strongly recommend at least a year of behavioral and social sciences as well as a year of English and humanities. (Refer to courses recommended to fulfill these requirements following the Zoology Major Program, code #2502.) If the student has a particular medical school in which he or she wishes to enroll the program should be planned to meet the specific requirements of that school.

All medical college applicants are required

to take the Medical College Admission Test (MCAT) in spring (preferred) or fall of the calendar year previous to the year they expect to enroll in medical college.

A student who plans to complete only three years at Ohio University before entering medical college is urged to meet requirements of the College of Arts and Sciences so as to be eligible for the degree *in absentia* privilege.

Chemistry-Premedicine Major (AB Degree)

(major code #3314)

The recommended program for premedical students majoring in chemistry is listed below. Possible options for specific items in this program may be considered in consultation with an advisor in the Department of Chemistry.

Freshman

| | |
|--|----|
| Chem 141 Fundamentals of Chem. | 5 |
| Chem 142 Fundamentals of Chem. | 5 |
| Chem 143 Quant. Analys. | 5 |
| English Composition | 5 |
| Math 263A, 263B, 263C Analyt. Geom. & Calc. | 15 |
| Zool 150 Intro. to Zool. | 6 |
| Zool 151 Intro. to Zool. | 6 |
| Arts and Sciences degree requirements (including language) and/or electives. | |

Sophomore

| | |
|--|----|
| Chem 305, 306, 307 Organic Chem. | 9 |
| OR | |
| Chem 301 & 302** Organic Chem. | 6 |
| Chem 308 & 309 Organic Chem. Lab. | 4 |
| OR | |
| Chem 303 & 304** Organic Chem. Lab. | 3 |
| Phys 251, 252, 253 Gen. Phys. | 15 |
| Arts and Sciences degree requirements (including language) and/or electives. | |

Junior

| | |
|--|-----|
| Chem 453, 454, 455 Phys. Chem. | 9 |
| OR | |
| Chem 351** Phys. Chem. | 4 |
| English Composition | 4-5 |
| Zool 303 Compar. Vertebrate Anat. | 6 |
| Zool 325* Gen. Genetics | 5 |
| Chem 325** Instr. Methods of Analys. | 4 |
| OR | |
| Chem 484* Electrochem. Methods of Analys. | 5 |
| AND | |
| Chem 485* Spectrochem. Analys. | 5 |
| Arts and Sciences degree requirements (including language) and/or electives. | |

Senior

| | |
|--|---|
| Chem 476† Mod. Inorganic Chem. | 4 |
| Zool 406* Vertebrate Embryology | 6 |
| Chem 490**†, 491**†, 492**† Intro. to Biochem. | 9 |
| Arts and Sciences degree requirements (including language) and/or electives. | |

* Desirable but not required

** Students who select these courses are reminded that a full year's work in one of these fields is required

† Students anticipating the degree *in absentia* privilege should schedule these requirements in the junior year

Zoology-Premedicine Major

(major code #2502)

Premedical students majoring in zoology will be required to complete the following program. Students who elect the degree *in absentia* option must complete a minimum of 36 hours in zoology/microbiology; those who

elect the four year program must complete a minimum of 45 hours in zoology/microbiology.

Freshman

| | |
|---|----|
| Chem 141 Fundamentals of Chem. | 5 |
| Chem 142 Fundamentals of Chem. | 5 |
| Chem 143 Quant. Analys. | 5 |
| English Composition | 5 |
| Math 163 A-B Intro. to Calc.* | 8 |
| OR | |
| Math 263 A-B Analyt. Geom. & Calc. | 10 |
| Zool 150 and 151 Intro. to Zool. | 12 |
| Arts and Sciences college degree requirements and/or electives. (English and comparative arts are recommended.) | |

* Of the choices, this is recommended.

Sophomore

| | |
|---|----|
| Chem 301-302-303-304 Organic (short)* | 9 |
| OR | |
| Chem 305-306-307-308-309 Organic (long) | 13 |
| Zool 303 Compar. Vertebrate Anat. | 6 |
| Zool 325 Gen. Genetics | 5 |
| Arts and Sciences college degree requirements and/or electives. | |

* Of the choices, this is recommended.

Junior-Senior

| | |
|--|-----|
| Chem 325 Instr. Analys. | 4 |
| English Composition | 4-5 |
| Phys 201-202-203 Intro. | 12 |
| Zool 404 Compar. Vertebrate Anat. | 6 |
| Zool 406 Vertebrate Embryology | 6 |
| Zool 448 Cell Physiology | 4 |
| OR | |
| Zool 460 Animal Physiology | 5 |
| Zool 463 Cell Chem. | 4 |
| OR | |
| Chem 491 Intro. to Biochem. | 3 |
| OR | |
| Chem 489 Basic Biochem. | 4 |
| Arts and Sciences college degree requirements and/or electives. | |
| Recommended electives: Micr 411; IndT 336. | |
| Recommended behavioral and social sciences: Anth 270 or 370; Psy 131, 173, 332, 336; courses in sociology. | |
| Recommended humanities: Comparative arts; Gk 127; literature courses; philosophy. | |

Two-Year Program in Mental Health Technology

The College of Arts and Sciences through the Department of Social Work offers the associate in applied science degree in mental health technology. Students requesting admission to the program must apply through the Department of Social Work and be accepted by an evaluation committee. A minimum of 96 hours is required (with a 2.0 average at graduation), to be completed in no fewer than six (6) academic quarters.

Two-Year Mental Health Technology Curriculum

Freshman

| | |
|--------------------------------------|----|
| Zool 103 Human Biol. | 4 |
| Psy 101 Gen. Psych. | 5 |
| 4HT 101 Intro. to Mental Health | 3 |
| | 12 |
| Humanities* | 3 |

| | |
|-----------------------------------|----|
| MHT 112 Helping Relationship | 3 |
| Soc 101 Intro. to Sociology | 5 |
| Psy 131 Psych. of Adjustment | 4 |
| | 12 |

| | |
|-----------------------------------|-----|
| Humanities* | 3 |
| MHT 122 Intro. to Social Casework | 3 |
| Psy 332 Abnormal Psych. | 5 |
| Psy 173 Child & Adolescent Psych. | 5 |
| | 13 |
| Humanities* | 2-3 |

Sophomore

| | |
|------------------------------------|----|
| MHT 221 Practi. in Mental Health I | 10 |
| MHT 201 Activity Therapies | 3 |
| Educ 410 Human Relations | 3 |
| | 16 |

| | |
|--|----|
| MHT 222 Practi. in Mental Health II | 10 |
| Educ 440 Foundations in Group Dynamics | 4 |
| SW 290 Social Security System | 4 |
| | 18 |

| | |
|--|----|
| MHT 223 Practi. in Mental Health III | 10 |
| MHT 231 Seminar in Mental Health | 3 |
| SW 391 Am. Social Welfare Institutions | 4 |
| | 17 |

*To include the University English composition requirement.

Preparation for Meteorology

(Geography-Meteorology Major,
major code #4233)
(Mathematics-Meteorology Major,
major code #3104)
(Physics-Meteorology Major,
major code #3336)

The following program is intended to provide an interdisciplinary program in the departments of Geography, Mathematics, and Physics for students who wish to prepare themselves for training at the graduate level in the fields of meteorology, climatology, and atmospheric physics. The choice of a geography, mathematics, or physics emphasis is open to the student's choice.

Freshman

| | |
|---|----|
| English Composition | 5 |
| Math 263A, 263B, 263C Analyt. Geom. & Calc. | 15 |
| Geog 101 Elements of Physical Geog. | 5 |
| Geol 101 Earth Material & Structure | 4 |
| Chem 141 Fundamentals of Chem. | 5 |
| Chem 142 Fundamentals of Chem. | 5 |

Sophomore

| | |
|--|----|
| Math 340 Differential Equations | 5 |
| Math 440 Vector Analysis | 5 |
| Math 441 Fourier Series & Partial Differential Equations | 5 |
| Geog 201 Environment & Man | 4 |
| Geol 211 Oceanography | 5 |
| Phys 251, 252, 253 Gen. Phys. | 15 |
| ENT 240 Intro. to Comput. Solutions of Engr. Problems | 3 |

Junior

| | |
|-------------------------|-----|
| English Composition | 4-5 |
| Geog 311 Meteorology | 5 |
| Geog 312 Climatology | 5 |
| Phys 311, 312 Mechanics | 8 |

Senior

| | |
|---------------------------------------|---|
| ChE 460 Atmospheric Pollution Control | 3 |
|---------------------------------------|---|

| | |
|---------------------------------|---|
| Geog 490C Observation Practicum | 3 |
| Phys 411 Thermodynamics | 4 |

In addition, the student should select one of the three departments for specialization, contact that department for advising, and select the appropriate additional set of courses given below:

Plan A (Emphasis in Geography)

| | |
|---------------------------------------|---|
| Geog 130 Econ. Geog. | 4 |
| Geog 260 Map Reading & Interp. | 4 |
| Geog 327 Resource Mgt. & Conservation | 4 |
| Geog 365 Air Photo Interp. | 4 |

Plan B (Emphasis in Mathematics)

| | |
|--------------------------------------|---|
| Math 360 Intern. Analys. | 5 |
| Math 444 Intro. to Numerical Analys. | 5 |

Plan C (Emphasis in Physics)

| | |
|---|---|
| Phys 272, 273 Electronics Lab. | 4 |
| Phys 316 Mod. Phys. | 3 |
| Phys 412 Kinetic Theory & Statistical Mechanics | 4 |
| OR | |
| Phys 423 Optics | 4 |
| CE 340 Fluid Mechanics | 5 |

The student must also take courses necessary to satisfy the requirements of the College of Arts and Sciences, and electives as necessary to fulfill the University hours requirement. Recommended electives are: Math 450A,B; ENT 325, 326; Econ 101, 102, 313; and Geol 359, 407, 464, 480, 481, 482.

Preparation for Optometry

(Zoology-Preoptometry Major,
major code #2505)

The requirements for admission to schools of optometry are not uniform. A minimum of 90 hours exclusive of military science and physical education is required. The following curriculum will meet the admission requirements for a collegiate program and consequently of most independent schools of optometry. The student planning to earn the degree *in absentia* must complete at least 144 hours including all Arts and Sciences degree requirements and the program outlined below.

Freshman

| | |
|---|---|
| Chem 141 Fundamentals of Chem. | 5 |
| Chem 142 Fundamentals of Chem. | 5 |
| Chem 143 Quant. Analys. | 5 |
| English Composition | 5 |
| Math 263A Analyt. Geom. & Calc. | 5 |
| Math 263B Analyt. Geom. & Calc.* | 5 |
| Zool 150 Intro. to Zool. | 6 |
| Zool 151 Intro. to Zool. | 6 |
| Arts and Sciences college degree requirements and/or electives. | |

*Suggested, not required.

Sophomore

| | |
|---|---|
| Chem 301-302 Organic (short) | 6 |
| Chem 303-304 Organic Lab. | 3 |
| Psy 101 Gen. | 5 |
| Zool 303 Compar. Vertebrate Anat. | 6 |
| Zool 325 Gen. Genetics | 5 |
| Arts and Sciences college degree requirements and/or electives. | |

Junior

| | |
|---|-----|
| English Composition | 4-5 |
| Phys 201-202-203 Intro. | 12 |
| Zool 345 Human Physiology | 4 |
| OR | |
| Zool 460 Animal Physiology | 5 |
| Arts and Sciences college degree requirements and/or electives. | |
| PLUS AT LEAST 10 HOURS FROM AMONG THE FOLLOWING COURSES: | |
| Micr 411 Gen. | 6 |
| Zool 404 Compar. Vertebrate Anat. (Mammalian) | 6 |
| Zool 406 Vertebrate Embryology | 6 |
| Zool 408 Histology | 6 |
| Zool 448 Cell Physiology | 4 |
| Zool 463 Cell Chem. | 4 |

The student should consult the departmental advisor and the dean of the college regarding the program for the fourth year.

Further information relative to requirements and the profession of optometry may be obtained by writing to the American Optometric Association, Department of Public Information, 700 Chippewa Street, St. Louis, Missouri 63319.

Preparation for Pharmacy

(Zoology-Prepharmacy Major, major code #2506)
(Chemistry-Prepharmacy Major, major code #3313)

Most schools of pharmacy require 90 quarter hours of academic credit, exclusive of physical education and military science, for admission. The following general program will meet the requirements of most schools. There is no *in absentia* arrangement for pharmacy.

Freshman

| | |
|---|-----|
| Chem 141 Fundamentals of Chem. | 5 |
| Chem 142 Fundamentals of Chem. | 5 |
| Chem 143 Quant. Analys. | 5 |
| English Composition | 5 |
| Math 163A-B Intro. to Calc. | 8 |
| OR | |
| Math 263A-B Analyt. Geom. & Calc. | 5-5 |
| Zool 150-151 Intro. to Zool. | 12 |
| Arts and Sciences college degree requirements and/or electives. | |

Sophomore

| | |
|---|----|
| Chem 305-306-307 Organic (long) | 9 |
| Chem 308-309 Organic Lab. | 4 |
| Econ 101 Prin. | 4 |
| Phys 201-202-203 Intro. | 12 |
| QM 200 Intro. Bus. Data Proc. | 4 |
| QM 201 Stat. | 4 |
| Zool 300 Elements of Anat. | 6 |
| Arts and Sciences college degree requirements and/or electives. | |

The student may complete this program plus the additional requirements for the AB or BS degree with a major in zoology or chemistry.

Since some pharmacy schools require additional courses not listed here, a student wishing to go to a specific school should write to the school of his or her choice for additional requirements as soon as possible.

Preparation for Physical Therapy

(Zoology-Pre-Physical Therapy Major, major code #2507)

The following programs extending over a period of three or four years at Ohio University are recommended to students who wish to enter physical therapy.

Some professional schools of physical therapy require that each applicant take the Allied Health Admissions Test in the fall or winter of the calendar year prior to the year of expected admission to a physical therapy program. Each student will be responsible for determining whether this is a requirement of the selected school(s).

Plan A: After completing (1) a minimum of 144 quarter hours including the entire Plan A curriculum with at least a 2.0 point-hour ratio in the major and in all hours attempted and (2) all area requirements for the baccalaureate, the student may apply for admission to an accredited school of physical therapy. Upon satisfactory completion of 12 months of professional training in physical therapy the student will receive the bachelor of science degree *in absentia* from Ohio University with a major in zoology. At present Ohio University is affiliated with The Mayo Clinic and Northwestern University in this degree *in absentia* program.

Plan B: The student may elect to transfer to an accredited school of physical therapy and not complete the degree requirements at Ohio University. If this option is elected it is suggested that the transfer be made no later than the end of the sophomore year, and the student's academic program while at Ohio University should essentially follow that of Plan A. Care should be taken to fulfill all special admission requirements established by the school to which the student is transferring.

Plans C and D: A student may elect to pursue a career in physical therapy after completing a four-year bachelor's degree program at Ohio University majoring in either zoology (Plan C) or psychology (Plan D). It is recommended that such students follow one of the baccalaureate programs given below and apply for entrance to a certificate program in an accredited school of physical therapy to commence after graduation from Ohio University.

Plans A or B: Three year degree *in absentia* and transfer program. The following courses are required:

Freshman

| | |
|---|----|
| Chem 121-122-123 Principles of Chem. | 12 |
| Eng 172 Comp. | 5 |
| Math 113 Algebra | 5 |
| OR | |
| Math 163A Intro. to Calc. | 4 |
| Psy 101 Gen. | 5 |
| Psy 121 Elem. Stat. for the Behavioral Sciences | 5 |
| Zool 150-151 Intro. to Zool. | 12 |
| Arts and Sciences college degree requirements and/or electives. | |

Sophomore

| | |
|---|---|
| HPER 202C Personal & Community Health | 3 |
| Psy 173 Child & Adolescent | 5 |
| Phys 201-202 Intro. | 8 |
| Soc 101 or 302 Prin. | 5 |
| Zool 301 Human Anat. | 6 |
| Zool 345 Human Physiology | 4 |
| Zool 346 Human Physiology Lab. | 2 |
| Zool 352 Kinesiology | 4 |
| Arts and Sciences college degree requirements and/or electives. | |

Junior

| | |
|---|-----|
| English Composition | 4-5 |
| HPER 329C Athletic Training | 2 |
| Zool 445 Physiology of Exercise | 4 |
| Zool 446 Physiology of Exercise Lab | 2 |
| Zool Elective | 3 |
| Arts and Sciences college degree requirements and/or electives. | |

Students who elect the degree *in absentia* option (Plan A) must complete a minimum of 36 hours in zoology/microbiology.

Senior

To be completed at an accredited school of physical therapy. The following courses are suggested to be used to supplement the major or serve as electives:

| | |
|--|-----|
| GR 127 Greek Words in Engl. | 3 |
| HPER 420C Adv. Athletic Training | 4 |
| HSS 108 Intro. to Speech Disorders | 3 |
| OR | |
| HSS 336 Speech & Hearing Disorders in Pub. Schools | 3-4 |
| HSS 424 Neuropathologies of Speech & Lang. | 3-4 |
| Psy 275 Educ. | 5 |
| Psy 332 Abnormal | 5 |
| Psy 131 Psych. of Adjustment | 4 |
| Zool 303 Compar. Vertebrate Anat. | 6 |
| Zool 325 Gen. Genetics | 5 |
| Zool 460 Animal Physiology | 5 |
| Zool 479 Evolution | 4 |
| Zool 406 Vertebrate Embryology | 6 |

Plan C: Four-year BS in zoology program.
The following courses are required:

Freshman

| | |
|---|----|
| Chem 121-122-123 Principles of Chem. | 12 |
| Eng 172 Comp. | 5 |
| Math 113 Algebra | 5 |
| OR | |
| Math 163A Intro. to Calc. | 4 |
| Psy 101 Gen. | 5 |
| Psy 121 Elem. Stat. for the Behavioral Sciences | 5 |
| Zool 150-151 Intro. to Zool. | 12 |
| Arts and Sciences college degree requirements and/or electives. | |

Sophomore

| | |
|---|---|
| HPER 202C Personal & Community Health | 4 |
| Phys 201-202 Intro. | 8 |
| Soc 101 or 302 Prin. | 5 |
| Zool 301 Human Anat. | 6 |
| Zool 345 Human Physiology | 4 |
| Zool 346 Human Physiology Lab. | 2 |
| Zool 352 Kinesiology | 4 |
| Arts and Sciences college degree requirements and/or electives. | |

Junior

| | |
|---|-----|
| English Composition | 4-5 |
| HPER 329C Athletic Training | 2 |
| Psy 173 Child & Adolescent | 5 |
| Zool 303 Compar. Vertebrate Anat. | 6 |
| Zool 325 Gen. Genetics | 5 |
| Arts and Sciences college degree requirements and/or electives. | |

Senior

| | |
|--------------------------------------|---|
| Zool 445 Physiology of Exercise | 4 |
| Zool 446 Physiology of Exercise Lab. | 2 |

Students who complete the four-year program must complete a minimum of 45 hours in zoology/microbiology, Arts and Sciences college degree requirements and/or electives.

The following are suggested courses to be used to supplement the major or serve as electives:

| | |
|--|-----|
| GR 127 Greek Words in Engl. | 3 |
| HPER 420C Adv. Athletic Training | 4 |
| HSS 108 Intro. to Speech Disorders | 3 |
| OR | |
| HSS 336 Speech & Hearing Disorders in Pub. Schools | 3-4 |
| HSS 424 Neuropathologies of Speech & Lang. | 3-4 |
| Psy 131 Psych. of Adjustment | 4 |
| Psy 275 Educ. | 5 |
| Psy 332 Abnormal | 5 |
| Zool 404 Compar. Vertebrate Anat. | 6 |
| Zool 460 Animal Physiology | 5 |
| Zool 479 Evolution | 4 |

Plan D: Four-year AB in psychology program. The following courses are required:

Freshman

| | |
|---|----|
| Chem 121-122-123 Principles of Chem. | 12 |
| Eng 172 Contemp. Wrting. Skills | 5 |
| Math 113 Algebra | 5 |
| OR | |
| Math 163A Intro. to Calc. | 4 |
| Psy 101 Gen. | 5 |
| Zool 150-151 Intro. to Zool. | 12 |
| Arts and Sciences college degree requirements and/or electives. | |

Sophomore

| | |
|---|---|
| Phys 201-202 Intro. | 8 |
| Psy 121 Elem. Stat. for Behavioral Science | 5 |
| Psy 226 Experimental Psych. | 5 |
| Psy 173 Child & Adolescent | 5 |
| Soc 101 or 302 Prin. | 5 |
| Zool 301 Human Anat. | 6 |
| Zool 345 Human Physiology | 4 |
| Zool 346 Human Physiology Lab. | 2 |
| Zool 352 Kinesiology | 4 |
| Arts and Sciences college degree requirements and/or electives. | |

Junior

| | |
|---|-----|
| English Composition | 4-5 |
| HPER 329C Athletic Training | 2 |
| Psy 131 Psych. of Adjustment | 4 |
| Psy 241 Behavioral Measurement | 5 |
| Psy 303 Learning | 5 |
| OR | |
| Psy 304 Human Learning | 5 |
| Arts and Sciences college degree requirements and/or electives. | |

Senior

| | |
|---|---|
| HPER 202C Personal & Community Health | 4 |
| Psy 310 Motivations | 5 |
| OR | |
| Psy 336 Social | 5 |
| OR | |
| Psy 351 Clinical & Counseling | 5 |
| Psy 312 Physiological Psych. | 5 |
| Psy 332 Abnormal | 5 |
| OR | |
| Psy 333 Psych. of Personality I | 5 |
| Psy 376 Psych. of Exceptional Child | 5 |
| Zool 445 Physiology of Exercise | 4 |
| Zool 446 Physiology of Exercise Lab | 2 |
| Arts and Sciences college degree requirements and/or electives. | |

The following are suggested electives:

| | |
|--|-----|
| GR 127 Greek Words in Engl. | 3 |
| HSS 108 Intro. to Speech Disorder | 3 |
| OR | |
| HSS 336 Speech & Hearing Disorders in Public Schools | 3-4 |

| | |
|---|-----|
| HSS 424 Neuropathologies of Speech & Lang. | 3-4 |
| Zool 404 Compar. Vertebrate Anat. | 6 |
| Zool 460 Animal Physiology | 5 |
| Zool 479 Evolution | 4 |

Preparation for Theology and Religion

(English-Pretheology Major, major code #5233)

(History-Pretheology Major, major code #4213)

(Philosophy-Pretheology Major,
major code #5242)

It is recommended that a student planning to enter a theological seminary or to do graduate study in religion take a broad program of undergraduate courses including the following (with minimal quarter hours of credit suggested in each area): philosophy (12); Bible and history of religions (15); English composition and literature, and world literature (21); history (15); social sciences (21); foreign languages (18, preferably in Greek, Latin, French, or German); natural sciences (9); public speaking (3). The course program should be arranged to meet the requirements of the bachelor of arts degree. It is advisable to major in philosophy, English, or one of the social sciences. The student should also check the entrance requirements of the theological seminary or graduate school of his or her choice and plan his or her course accordingly.

Preparation for Veterinary Medicine

(Zoology-Preveterinary Medicine Major,
major code #2508)

Most schools of veterinary medicine require a bachelor's degree for admission. The Veterinary Aptitude Test must be taken during the calendar year previous to the year in which the student expects to enroll in veterinary school.

The practice of most schools of veterinary medicine is to admit only residents of the state in which the schools are located. Exceptions to this generally are by contractual agreement with states which have no schools of veterinary medicine. Early in his or her college career the preveterinary medicine student should identify the schools to which he or she might be eligible for admission and become familiar with the specific entrance requirements of those schools.

The student should bear in mind that admission to a school of veterinary medicine is highly competitive and that successful applicants not only have achieved outstanding, well-rounded academic records but also have presented a demonstrable genuine interest in the profession of veterinary medicine.

Preveterinary medicine students majoring in zoology will be required to complete the following program, which must include at least 50 hours of zoology/microbiology coursework. Additional sections from the recommended electives listed after the junior-senior program are encouraged.

Freshman

| | |
|---|----|
| Chem 141 Fundamentals of Chem. | 5 |
| Chem 142 Fundamentals of Chem. | 5 |
| Chem 143 Quant. Analys. | 5 |
| Eng 172 Comp. | 5 |
| Math 163A-B Intro. to Calc.* | 8 |
| OR | |
| Math 263A-B Analyt. Geom. & Calc. | 10 |
| Zool 150 Intro. to Zool. | 6 |
| Zool 151 Intro. to Zool. | 6 |
| Arts and Sciences college degree requirements and/or electives. | |

*Of the choices, this is recommended.

Sophomore

| | |
|---|----|
| Chem 301-302 Organic (short) | 6 |
| Chem 303-304 Organic Lab. | 3 |
| Phys 201-202-203 Intro. | 12 |
| Zool 303 Compar. Vertebrate Anat. | 6 |
| Zool 325 Gen. Genetics | 5 |
| Arts and Sciences college degree requirements and/or electives. | |

Junior-Senior

| | |
|---|-----|
| English Composition | 4-5 |
| Micr 411 Gen. Microbiol. | 6 |
| Zool 460 Animal Physiology | 5 |
| Zool 461 Animal Physiology Lab. | 4 |
| Arts and Sciences college degree requirements and/or electives. | |

Recommended electives:

| | |
|--|---|
| Micr 415 Immunology | 6 |
| Zool 404 Compar. Vertebrate Anat.—Mammalian | 6 |
| Zool 406 Vertebrate Embryology | 6 |
| Zool 441 Parasitology | 6 |
| Zool 463 Cell Chem. | 4 |

OR

| | |
|--|---|
| Chem 490 and 491 Intro. to Biochem. | 6 |
| Students who elect the degree in <i>absentia</i> option must complete a minimum of 36 hours in zoology/microbiology. Students who complete the four-year program must complete a minimum of 45 hours in zoology. | |

Preparation for Water Resources

(Geology-Water Resources Major,
major code #3322)

This curriculum is recommended for students who wish to specialize in the investigation of surface water and groundwater supplies. The student entering the program majors in geology as a BS degree candidate, and takes additional coursework in mathematics, chemistry, physics, and civil engineering. Graduates of the program are qualified to seek professional employment in hydrogeology or to enter graduate school for additional training.

Students should enter the program as freshmen in order to complete the required curriculum in four years.

Freshman

| | |
|--|----|
| English Composition | 5 |
| Geol 101 Earth Materials & Struct. | 4 |
| Geol 330 Prin. of Geomorphology | 5 |
| Chem 141 Fundamentals of Chem. | 5 |
| Chem 142 Fundamentals of Chem. | 5 |
| Chem 143 Quant. Analys. | 5 |
| Math 263A, 263B, 263C Analyt. Geom. & Calc. | 15 |
| Arts and Sciences degree requirements (including language) and/or electives. | |

Sophomore

| | |
|---|---|
| Math 340 Diff. Equations. | 5 |
| Geol 310 Rocks & Minerals | 5 |
| Geol 350 Sedimentology-Sedimentary Petrology | 3 |

Phys 251, 252, 253 Gen. Phys.15
Arts and Sciences degree requirements (including language) and/or electives.

Junior

English Composition4-5
Geol 353 Prin. of Stratigraphy 3
Geol 359* Geodynamics: Earth's Interior 3
Geol 360 Struct. Geol. 4
Geol 480 Hydrogeology (I) 4
Geol 481 Hydrogeology (II) 4
CE 220 Statics 4
CE 321 Dynamics 4
Geol 483 (6) to be taken during the summer of the third year.
Arts and Sciences degree requirements (including language) and/or electives.

Senior

CE 340 Fluid Mechanics 5
Geol 476 Subsurface Methods 4
Geol 482 3
CS 253 Intro. to Dig. Comput. Programming
for Engr. & Phys. Sciences 5
Geol 485* Appld. Geophysics 4
CE 343 Hydrology 4
Arts and Sciences degree requirements (including language) and/or electives.
Additional coursework in civil engineering (415, 450, 451, 452), botany (101, H101, 102, 103, 311), zoology and microbiology (211, 212, H390), and economics is recommended as elective courses to be taken in the senior year.

*Either Geol 359 or Geol 485 may be taken to fulfill the major requirements.

The College of Business Administration

Gerald Silver, *Dean*

Herschel R. McNabb, *Assistant Dean*

The College of Business Administration seeks to prepare men and women for professional careers in business, government, and nonprofit organizations. Consistent with its purpose, the college provides a base of liberal education needed by all educated persons in our society: business-oriented instruction in professional fields; and a close association with other colleges so as to promote knowledge and understanding from a variety of sources.

Business instruction and research center around three themes: preparation of the manager for a variety of business activities; development of analytical skills; and fostering a critical awareness of the social, political, and economic environment in which decisions will be made.

The academic departments (Accounting and Quantitative Methods, Administrative Sciences, Management) offer major fields of study in accounting, business prelaw, finance, general business, management, marketing, production management, and quantitative methods. Also available is a major in business economics.

In addition, the Center for Business Enterprise, Center for Court Administration, Center for Leadership Studies, and the Institute for Systems Analysis provide both educational programs for external organizations and opportunities for students and faculty to engage in meaningful projects.

The College of Business Administration has been a fully accredited member of the American Assembly of Collegiate Schools of Business since 1950.

BACHELOR OF BUSINESS ADMINISTRATION

A candidate for the degree of bachelor of business administration (BBA) must complete

the general University requirements for graduation which call for a minimum of 192 quarter hours with a point-hour ratio of 2.0 (C) average on all hours attempted. This point-hour requirement applies to the student's total record and also applies separately to the record on courses taken in this college, and also to courses in the student's major. The College of Business Administration limits transfer credit for required business courses taken at a lower division level to such courses as it offers at that lower level. Other transfer credits accepted by the University are evaluated as either business or nonbusiness electives.

Courses included in the 192 hour minimum for the BBA degree must be chosen so that at least 77 quarter hours are earned in areas of business and economics and at least 77 quarter hours are earned in nonbusiness areas (outside the college). However, eight hours of economics principles may be counted in either minimum. Among the nonbusiness courses, at least six quarter hours must be distributed in each of four broad areas: humanities, mathematics, natural science, and social science. Only three quarter hours of activity-type courses in the area of health, physical education, and recreation are acceptable within the 192 hours of credit toward the BBA degree; no credit is allowed for ROTC summer camp. A minimum of 48 credit hours must be completed after admission to the college in order to meet the college's residency requirement.

CURRICULUM

All candidates for the BBA degree must complete a core of courses covering a common body of knowledge in the tools of analysis and the operational fields of business plus concentration in a major area. Only a few core courses may be taken, as indicated below, during the

freshman and sophomore years. This permits the student (A) to acquire an early foundation in the basic arts and sciences before specializing in business during the junior and senior years; and (B) the flexibility to choose alternative fields of study in cases of interest change. The recommended sequencing of courses is:

| Freshman | |
|---|----|
| Econ 101, 102, Prin. | 8 |
| Math 163A-163B Intro. to Calculus | 8 |
| Humanities (minimum) | 6 |
| Natural Sciences (minimum) | 6 |
| Social Sciences (minimum) | 6 |
| Electives | 14 |
| Sophomore | |
| Acct 101-102 Managerial Acct. | 8 |
| BusL 255 Law & Society | 4 |
| QM 200 Intro. to Business Data Proc. | 4 |
| QM 201 Intro. to Probabilities & Stat. | 4 |
| Electives | 28 |
| Junior | |
| BA 310 Production Management | 4 |
| Econ 305 Managerial Econ. | 4 |
| Fin 325 Managerial Finance | 4 |
| Mgt 300 Management | 4 |
| Mgt 325 Communication Behavior in the Modern Organization | 4 |
| Mkt 301 Marketing Principles | 4 |
| Major Courses & Electives | 24 |
| Senior | |
| BA 470 Administrative Policy | 4 |
| Major Courses & Electives | 44 |

MAJOR — AREA OF CONCENTRATION

Each candidate for the BBA degree must designate a major or area of concentration and complete the courses required by the department offering that major. A student designates a major upon entering the college, but may change his or her major at any time. The majors are listed below by department. The course requirements for majors are indicated in this section.

Department of Accounting and Quantitative Methods

Accounting
Quantitative Methods

Department of Administrative Sciences

Finance
General Business (see Business Administration in the *Courses of Instruction* section)
Marketing
Production Management

Department of Economics (College of Arts and Sciences)

Business Economics

Department of Management

Management
Business Prelaw

NOTE: For pass/fail option, see the *Guide-*

lines and General Information section of this bulletin.

The Accounting Major

The curriculum for accounting majors is designed to give the students a broad understanding of basic business fundamentals plus an opportunity to concentrate in one or more special fields of accounting. The students also have the opportunity to broaden both their interests and their nontechnical knowledge and skills by taking courses from faculty from many different departments of the University. At least 40 percent of the degree requirements must be taken from divisions and departments other than the College of Business Administration.

The accounting major is given an opportunity to study general accounting theory and, in addition, may specialize in managerial accounting (controllorship), public accounting (CPA), tax accounting (private practice or with the IRS), governmental accounting, industrial/cost accounting, or institutional accounting. As an alternative to securing direct entry into an accounting position upon graduation, some students major in accounting for a good, solid background education. Accounting has proven to be an excellent foundation for advancement to top executive positions for many graduates.

The special needs of an accounting major can be selectively chosen from the following list of courses, or by properly selecting the electives the student may prepare himself or herself for a variety of interesting and challenging positions other than accounting. The advisor can help select the necessary elective courses which will allow specialization or broadening of the field of interest.

There are scholarships and achievement awards available from several sources. The Accounting Department awards scholarships to entering freshmen who have evidenced good potential for accounting ability, based on their high school records and test scores. In addition, the department grants achievement awards to those students who excel in gaining technical knowledge in accounting. These are based on merit alone; need is not a factor. All of these departmental awards are in addition to those that the University and the College of Business Administration have available each year to accounting and other majors.

Suggested Courses Sequence

| Freshman | |
|---|---|
| Math 163A Calculus | 4 |
| Math 163B Calculus | 4 |
| Econ 101 Prin. | 4 |
| Econ 102 Prin. | 4 |
| Acct 101 Managerial | 4 |
| Acct 102 Managerial | 4 |
| English, plus another humanities course | |
| Natural science, 2 courses | |
| Electives*, 2 courses | |

Sophomore

| | |
|------------------------------|---|
| Acct 217 Taxation | 4 |
| Acct 310 Cost | 4 |
| Acct 303 Interm. | 4 |
| QM 200 Stat. | 4 |
| QM 201 Stat. | 4 |
| BusL 255 Law & Society | 4 |
| Social science, 1 course | |
| Electives*, 5 courses | |

Junior

| | |
|------------------------------|---|
| Acct 304 Interm. | 4 |
| Acct 305 Interm. | 4 |
| Acct 345** Systems | 4 |
| Mgt 300 Prin. | 4 |
| Econ 305 Managerial | 4 |
| Mkt 301 Prin. | 4 |
| Mgt 325 Communications | 4 |
| BA 310 Prod. | 4 |
| Fin 325 Prin. | 4 |
| Electives*, 3 courses | |

Senior

| | |
|---|---|
| Acct 451** Auditing | 4 |
| Acct 406** Adv. | 4 |
| Acct 340** Adv. Cost | 4 |
| Acct 317** Adv. Tax | 4 |
| Acct 347** Tax Research | 4 |
| QM 401 Operations Research | 4 |
| BusL 357 Law of Commercial Transactions | 4 |
| BA 470 Administrative Policy | 4 |
| Electives***, 4 courses | |

*To meet the requirement of 77 hours outside the College of Business Administration.

**Two accounting courses required of those so marked. The CPA examination requirements in most states will require at least 36 hours, including Acct 101 and 102.

***Business or nonbusiness, depending on previous selections.

The Business Prelaw Major

It should be recognized that law schools do not prescribe any rigid undergraduate curriculum. A very substantial number of prelaw students, however, do choose one of the business fields of study as their major field for the baccalaureate degree. They may wish to combine the business prelaw major along with one of the other majors in the College of Business Administration if the profession of law is to be their ultimate career goal.

The business prelaw major recognizes the business and economic emphasis of the practice of law, and also provides the breadth of training and philosophical background which is conducive to success in a law school.

Students who decide to major in business prelaw must follow the requirements in one of the other majors in the College of Business Administration, which include accounting, quantitative methods, finance, general business, management, business economics, marketing, and production management. In addition to following the requirements of one of the other majors in the College of Business Administration, students must complete 16 hours at the 300-400 level, including BUSL 356 and four additional hours in business law beyond 356 as selected by the student with the approval of his or her prelaw major advisor. A further eight hours should be selected from the following: ACCT 217 (Introduction to Taxation), ACCT 317 (Federal Income Taxes), ECON 430 (Public Finance), MGT 425 (Labor Relations),

POLS 401 and 402 (Constitutional Law), POLS 403 (Judicial Process), POLS 409 (Law Enforcement), POLS 411 (Public Administration), POLS 413 (Administrative Law). Students may also request from their business prelaw advisors written permission to substitute a course different from those listed above. With their advisors' approval, students should elect additional courses in nonbusiness fields, especially American government, American and English history, English, philosophy, and interpersonal communication.

The Department of Management which contains the law faculty in the College of Business Administration is prepared to assist prelaw students in a number of ways:

Several departmental faculty members give extensive time to counseling students regarding selection of courses, the Law School Admission Test, law school application procedures, and other matters of importance to prelegal education.

Law School Admission Test (LSAT) and Law School Data Assembly Service (LSDAS) are available from the prelaw advisor.

The department maintains ties with the Criminal Justice Program administered by the University College.

The department maintains ties with faculty and staff at various law schools in the country.

Suggested Course Sequence

Business Prelaw Major Program of Study using management as the business major selected. Requirements for the various business majors vary by the number of hours required and this illustration will need to be modified for other business majors used in combination with the business prelaw major.

Freshman

Fall

| | |
|--|-----|
| Econ 101 Prin. of Econ. | 4 |
| Eng 172 Contemp. Wrting. Skills | 5 |
| Social science requirement | 2-5 |
| Elective (Math 113 unless math background is strong) | 5 |

Winter

| | |
|------------------------------------|---|
| Econ 102 Prin. of Econ. | 4 |
| Math 163A Intro. to Calculus | 4 |
| InCo 103 Pub. Spkng. | 4 |
| Humanities requirements | 4 |

Spring

| | |
|------------------------------------|---|
| Math 163B Intro. to Calculus | 4 |
| Natural science requirement | 4 |
| Elective | 4 |
| Elective | 4 |

Sophomore

Fall

| | |
|-------------------------------------|-----|
| Acct 101 Managerial Acct. | 4 |
| QM 200 Business Data Analysis | 4 |
| Humanities requirement | 2-5 |

Winter

| | |
|--------------------------------|---|
| Acct 102 Managerial Acct. | 4 |
|--------------------------------|---|

| | |
|------------------------------------|-----|
| QM 201 Intro. to Prob.& Stat. | 4 |
| Natural science requirement | 2-5 |
| Elective | 2-5 |

Spring

| | |
|----------------------------------|-----|
| BusL 255 Law & Society | 4 |
| Mgt 300 Mgt. | 4 |
| Social science requirement | 2-5 |
| Elective | 2-5 |

Junior

Fall

| | |
|--|---|
| Mgt 440 Organizational Ldrshp. & Motiv. | 4 |
| Mgt 325 Commun. Behavior in the Mod. Organization | 4 |
| Econ 305 Managerial Econ. | 4 |
| BusL 356 Law of the Mgt. Process | 4 |

Winter

| | |
|-----------------------------------|---|
| Mgt 420 Admin. of Personnel | 4 |
| Fin 325 Managerial Finance | 4 |
| BA 310 Prod. Mgt. | 4 |
| Elective | 4 |
| Advanced BusL course | 4 |

Spring

| | |
|--|-----|
| Mgt 430 Mgt. System: Decision-making | 4 |
| Mkt 301 Mkt. Prin. | 4 |
| Business prelaw course | 4 |
| Elective | 2-5 |

Senior

Fall

| | |
|---------------------------------|-----|
| Management major elective | 2-5 |
| Supporting field elective | 2-5 |
| Business prelaw course | 4 |
| Elective | 2-5 |

Winter

| | |
|---------------------------------|-----|
| Management major elective | 2-5 |
| Supporting field elective | 2-5 |
| Business prelaw course | 4 |
| Elective | 2-5 |

Spring

| | |
|---------------------------------|-----|
| BA 470 Admin. Policy | 4 |
| Supporting field elective | 2-5 |
| Elective | 2-5 |
| Elective | 2-5 |

For further information about a major in business prelaw, contact Arthur Marinelli, professor of business law, Copeland Hall 217, Ohio University, Athens, Ohio 45701; telephone 614/594-5414.

The Business Economics Major

The BBA business economics program is designed to provide a broad business background and is intended for those who plan careers in business and economic research for both private firms and government, in banking, and in marketing analysis. It is also an important component for business management, law, production management, and financial analysis.

Suggested Course Sequence

Freshman

Fall

| | |
|-----------------------|---|
| Econ 101 Prin. | 4 |
| Humanities | 4 |
| Natural science | 4 |
| Elective | 4 |

Winter

| | |
|------------------------------------|---|
| Econ 102 Prin. | 4 |
| Math 163A Intro. to Calculus | 4 |
| Natural science | 4 |
| Social science | 4 |

Spring

| | |
|------------------------------------|---|
| Math 163B Intro. to Calculus | 4 |
| Humanities | 4 |
| Social science | 4 |
| Elective | 4 |

Sophomore

Fall

| | |
|---|---|
| QM 200 Intro. to Bus. Data Analys. | 4 |
| Econ 304 Macroecon. | 4 |
| Economics elective | 4 |
| Elective | 4 |

Winter

| | |
|-------------------------------------|---|
| QM 201 Intro. to Prob. & Stat. | 4 |
| Acct 101 Managerial Acct. | 4 |
| Economics elective | 4 |
| BusL 255 Law & Society | 4 |

Spring

| | |
|--------------------------------|---|
| Acct 102 Managerial Acct. | 4 |
| Econ 305 Managerial Econ. | 4 |
| Economics elective | 4 |
| Elective | 4 |

Junior

Fall

| | |
|---|---|
| Mgt 325 Comm. Behavior in Mod. Organization | 4 |
| Fin 325 Managerial Finance | 4 |
| Elective | 8 |

Winter

| | |
|--|---|
| Econ 385 Intro. to Econ. Method. & Res. | 4 |
| Mgt 300 | 4 |
| CBA elective | 4 |
| Elective | 4 |

Spring

| | |
|-------------------------|---|
| BA 310 | 4 |
| Mkt 301 Mkt. Prin. | 4 |
| CBA elective | 4 |
| Elective | 4 |

Senior

Fall

| | |
|-----------------|----|
| BA 470 | 4 |
| Electives | 12 |

Winter

| | |
|-----------------|----|
| Electives | 16 |
|-----------------|----|

Spring

| | |
|-----------------|----|
| Electives | 16 |
|-----------------|----|

The Finance Major

The finance major prepares professionals who are concerned with the development and utilization of funds for economic and social purposes. Coursework is available in the fields of financial management (both national and international), commercial banking, financial institutions, security markets, and risk and insurance.

Typically, upon graduation, the finance major obtains direct entry positions in such areas as the financial banking community, insurance, government services, or in an array of industries which employ financial analysts, decision makers, financial strategists, budgeting officers, and planners.

Suggested Course Sequence

Freshman

Fall

| | |
|------------------------------------|---|
| Econ 101 Prin. of Econ. | 4 |
| Math 163A Intro. to Calculus | 4 |
| Nonbusiness electives** | |

Winter

| | |
|------------------------------------|---|
| Econ 102 Prin. of Econ. | 4 |
| Math 163B Intro. to Calculus | 4 |
| Nonbusiness electives | |

Spring

Nonbusiness electives

Sophomore

Fall

| | |
|---|---|
| Acct 101 Managerial Acct. | 4 |
| QM 200 Intro. to Bus. Data Analys. | 4 |
| Nonbusiness electives | |

Winter

| | |
|-------------------------------------|---|
| Acct 102 Managerial Acct. | 4 |
| QM 201 Intro. to Prob. & Stat. | 4 |
| Nonbusiness electives | |

Spring

| | |
|----------------------------------|---|
| Fin 325 Managerial Finance | 4 |
| BusL 255 Law & Society | 4 |
| Nonbusiness electives | |

Junior

Fall

| | |
|--|---|
| BA 310 Prod. Mgt. | 4 |
| Econ 305 Managerial Econ. | 4 |
| Fin 341 Investments | 4 |
| Fin 327 Banking & Financial Syst. | 4 |

Winter

| | |
|-----------------------------------|---|
| Mkt 301 Prin. of Mkt. | 4 |
| Mgt 300 Mgt. | 4 |
| Fin 445 Portfolio Mgt. | 4 |
| Business or nonbusiness electives | |

Spring

| | |
|---|---|
| Mgt 325 Comm. Behavior in Mod. Organization | 4 |
| Fin 461 Prob. in Bus. Finance | 4 |
| Fin 331 Risk & Insurance | 4 |
| Business or nonbusiness electives | |

Senior

Fall

| | |
|-----------------------------------|---|
| BA 470 Admin. Policy | 4 |
| Business or nonbusiness electives | |

Winter

| | |
|---|---|
| Fin 428 Mgt of Financial Institutions | 4 |
| Business or nonbusiness electives | |

Spring

Business or nonbusiness electives

*The outlined courses are intended to act as a guide — not as a required sequence. For example, some freshmen should not take Math 163A first quarter but should instead enroll in Math 113 or another math course more basic than 163A. A factor influencing this decision is the math proficiency of the individual student. Decisions throughout the four-year program can best be reached by students consulting a faculty advisor for guidance.

**A minimum of 77 hours of nonbusiness courses is required including — six hours in humanities, six hours in natural science, six hours in social science, and the required eight hours of mathematics included in the core courses.

The General Business Major

The general business major prepares professionals on a broad basis for a business career. One upper level course is required from each of the following areas: accounting and quantitative methods, administrative sciences,

economics, and management. This major is of special interest to those students who have a generalized view of business and do not possess strong interests in any *one* concentration area.

Upon graduation, the general business major enters what may be the broadest area of positions of any major within the College of Business Administration. Recent general business majors have entered such fields as sales, banking, government services, personnel, advertising, small business entrepreneurship, production, and insurance, to name a few.

Suggested Course Sequence

Freshman

Fall

| | |
|------------------------------------|---|
| Econ 101 Prin. of Econ. | 4 |
| Math 163A Intro. to Calculus | 4 |
| Nonbusiness electives** | |

Winter

| | |
|------------------------------------|---|
| Econ 102 Prin. of Econ. | 4 |
| Math 163B Intro. to Calculus | 4 |
| Nonbusiness electives | |

Spring

Nonbusiness electives

Sophomore

Fall

| | |
|---|---|
| Acct 101 Managerial Acct. | 4 |
| QM 200 Intro. to Bus. Data Analys. | 4 |
| Nonbusiness electives | |

Winter

| | |
|-------------------------------------|---|
| Acct 102 Managerial Acct. | 4 |
| QM 201 Intro. to Prob. & Stat. | 4 |
| Nonbusiness electives | |

Spring

| | |
|------------------------------|---|
| BusL 255 Law & Society | 4 |
| Nonbusiness electives | |

Junior

Fall

| | |
|-----------------------------------|---|
| BA 310 Prod. Mgt. | 4 |
| Econ 305 Managerial Econ. | 4 |
| Business or nonbusiness electives | |

Winter

| | |
|-------------------------------------|---|
| Fin 325 Managerial Finance | 4 |
| Mgt 300 Mgt. | 4 |
| Economics elective above core | 4 |
| Business or nonbusiness electives | |

Spring

| | |
|--|---|
| Mgt 325 Comm. Behavior in the Mod. Organization .. | 4 |
| Mkt 301 Prin. of Mkt. | 4 |
| Accounting or quantitative methods | |
| elective above core | 4 |
| Business or nonbusiness electives | |

Senior

Fall

| | |
|--------------------------------------|---|
| BA 470 Admin. Policy | 4 |
| Management elective above core | 4 |
| Business or nonbusiness electives | |

Winter

| | |
|--|---|
| Administrative sciences (finance, marketing, | |
| business administration) elective above core | 4 |
| Business or nonbusiness electives | |

Spring

Business or nonbusiness electives

*The outlined courses are intended to act as a guide — not as a required sequence. For example, some freshmen should not take Math 163A first quarter but should instead enroll in Math 113 or another math course more basic than 163A. A factor influencing this decision is the math proficiency of the individual student. Decisions throughout the four-year program can best be reached by students consulting a faculty advisor for guidance.

**A minimum of 77 hours of nonbusiness courses are required including six hours of humanities, six hours in natural science, six hours in social science, and the required eight hours of mathematics included in the core courses.

The Management Major

Effective management is increasingly important in today's society because the complexity of the society breeds more and more institutions and organizations. Managing is an important activity in each of these. Thus there is, and will continue to be, a strong demand for effective managers to plan activities, to provide direction, and to work effectively with other people to insure that organizational goals are accomplished.

The management major curriculum is designed to provide the educational base for supervisors, executives, and administrators in business, government, and other institutions. In addition to the BBA degree requirements, a student majoring in management must complete the 16-hour departmental core plus at least two four-hour electives in management and InCo 103 (Public Speaking). The departmental core is composed of BusL 356 Law of the Mgt. Process; Mgt 420 Admin. of Personnel; Mgt 430 Mgt. Systems: Decision-Making; and Mgt 440 Organizational Behavior: Leadership & Motivation. The major electives may be any 400-level courses in the departmental curriculum not specified as part of the college core or the departmental core. Students desiring to concentrate their major electives can concentrate in personnel-industrial relations, organizational behavior, or management systems.

Since managers function in different types of institutions and manage different types of operations, it is strongly recommended that all management majors select a supporting field of study. The supporting field should be selected to provide a strong base for the student's career development. Students normally select, in consultation with their advisors, three to five courses in the supporting field. Recommended courses for the following supporting fields are available in the department chairman's office: manufacturing management, marketing management, financial management, public administration, retail management, natural resource management, health care management, recreation management, and international management. In addition, students may, in consultation with their advisors, tailor their own supporting fields to meet their own unique career goals.

A student majoring in management will be assigned an advisor who will work with the student to help define career goals based upon student interests, review strengths and weaknesses, and recommend relevant elective

courses. Students are expected to meet with their advisors at least once each quarter.

Students majoring in other areas frequently select management as a minor. Management minors normally take at least six courses. The specific courses taken are selected, in consultation with an advisor, to support the student's career orientation.

Additional information regarding the management major or minor may be obtained at the Office of the Chairman, Department of Management, 107 Copeland Hall.

Suggested Course Sequence**Freshman***Fall*

| | |
|--|---|
| Econ 101 Prin. of Econ. | 4 |
| Engl 172 Contemp. Wrting. Skills | 5 |
| Social science requirement | |
| Elective (Math 113 unless strong math background.) | |

Winter

| | |
|------------------------------------|---|
| Econ 102 Prin. of Econ. | 4 |
| Math 163A Intro. to Calculus | 4 |
| InCo 103 Pub. Spkng. | 4 |
| Humanities requirement | |

Spring

| | |
|------------------------------------|---|
| Math 163B Intro. to Calculus | 4 |
| Natural science requirement | |
| Elective | |
| Elective | |

Sophomore*Fall*

| | |
|---|---|
| Acct 101 Managerial Acct. | 4 |
| QM 200 Intro. to Bus. Data Analys. | 4 |
| Humanities requirement | |
| Elective | |

Winter

| | |
|-------------------------------------|---|
| Acct 102 Managerial Acct. | 4 |
| QM 201 Intro. to Prob. & Stat. | 4 |
| Natural science requirement | |
| Elective | |

Spring

| | |
|------------------------------|---|
| BusL 255 Law & Society | 4 |
| Mgt 300 Mgt. | 4 |
| Social science requirement | |
| Elective | |

Junior*Fall*

| | |
|--|---|
| Mgt 440 Organizational Ldrshp. & Motiv. | 4 |
| Mgt 325 Comm. Behavior in Mod. Organization | 4 |
| Econ 305 Managerial Econ. | 4 |
| BusL 356 Law of Mgt. Proc. | 4 |

Winter

| | |
|-----------------------------------|---|
| Mgt 420 Admin. of Personnel | 4 |
| Fin 325 Managerial Finance | 4 |
| BA 310 Prod. Mgt. | 4 |
| Elective | |

Spring

| | |
|---|---|
| Mgt 430 Mgt. Systems: Decision-Making | 4 |
| Mkt 301 Mkt. Prin. | 4 |
| Elective | |
| Elective | |

Senior

Fall

Management major elective
Supporting field elective
Elective
Elective

Winter

Management major elective
Supporting field elective
Elective
Elective

Spring

BA 470 Admin. Policy 4
Supporting field elective
Elective
Elective

The Marketing Major

The marketing major prepares students to become professional marketing personnel via available coursework in sales management, marketing research and consumer behavior, and marketing analysis and management (national as well as international).

Typically, upon graduation, the marketing major obtains direct entry positions in such areas as sales, sales management, promotion, public relations, and advertising, with companies which specialize in analysis and description of the consumer and his or her attitudes and behaviors.

Suggested Course Sequence

Freshman

Fall

Econ 101 Prin. of Econ. 4
Math 163A Intro. to Calculus 4
Psy 101 Gen. Psych. 5
Nonbusiness electives**

Winter

Econ 102 Prin. of Econ. 4
Math 163B Intro. to Calculus 4
Nonbusiness electives

Spring

Nonbusiness electives

Sophomore

Fall

Acct 101 Managerial Acct 4
QM 200 Intro. to Bus. Data Proc. 4
Nonbusiness electives

Winter

Acct 102 Managerial Acct. 4
QM 201 Intro. to Prob. & Stat. 4
Nonbusiness electives

Spring

Mkt 301 Prin. of Mkt. 4
Busl. 255 Law & Society 4
Nonbusiness electives

Junior

Fall

BA 310 Prod. Mgt. 4
Econ 305 Managerial Econ. 4
Mkt 303 Mkt. Problems & Cases 4
Mkt 444 Consumer Behavior 4

Winter

Fin 325 Managerial Finance 4
Mgt 300 Mgt. 4
Mkt 404 Mgt. of Distribution 4
Mkt 450 Mgt. of Promotion 4

Spring

Mgt 325 Comm. Behavior in the Mod. Organization .. 4
Mkt 458 Sales Mgt. 4
Mkt 479 Mkt. Research 4
Business or nonbusiness electives

Senior

Fall

BA 470 Admin. Policy 4
Mkt 463 Mkt. Strategy 4
Business or nonbusiness electives

Winter

Business or nonbusiness electives

Spring

Business or nonbusiness electives

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**A minimum of 77 hours of nonbusiness courses are required including six hours in humanities, six hours in natural science, six hours in social science, and the required eight hours of mathematics included in the core courses.

The Production Management Major

The program in production management is primarily concerned with the effective management of the physical and human resources of an organization. By partaking in a study of an interdisciplinary curriculum, the student obtains a basic understanding of how to effectively manage facilities, equipment, and personnel, and their interactions in a variety of activities such as manufacturing/assembly, transportation, warehousing, research, or assembly line operations.

The production management major is often called upon to design, construct, and operate elements in the input-transformation-output process/system. Those majoring in this program can expect to find career opportunities either in a supervisory capacity in an actual production operation or in one of the many staff assignments in manufacturing, such as methods and standards, evaluation of job content and design, production and inventory control, quality control, or in related fields such as purchasing, subcontracting, and industrial marketing.

For additional information or advising for the major, contact the Administrative Sciences Department, Copeland Hall.

Suggested Course Sequence*

Freshman

Fall

Econ 101 Prin. of Econ. 4
Math 164A Intro. to Calculus 4
Nonbusiness electives**

Winter

Econ 102 Prin. of Econ. 4
Math 163B Intro. to Calculus 4
Nonbusiness electives

Spring

Nonbusiness electives

Sophomore

Fall

| | |
|---------------------------------------|---|
| Acct 101 Managerial Acct. | 4 |
| QM 200 Intro. to Bus. Data Proc. | 4 |
| Nonbusiness electives | |

Winter

| | |
|-------------------------------------|---|
| Acct 102 Managerial Acct. | 4 |
| QM 201 Intro. to Prob. & Stat. | 4 |
| Nonbusiness electives | |

Spring

| | |
|-----------------------------|---|
| BusL 255 Law & Society | 4 |
| Nonbusiness electives | |

Junior

Fall

| | |
|-----------------------------------|---|
| BA 310 Prod. Mgt. | 4 |
| Econ 305 Managerial Econ. | 4 |
| Business or nonbusiness electives | |

Winter

| | |
|-----------------------------------|---|
| Fin 325 Managerial Fin. | 4 |
| Mgt 300 Mgt. | 4 |
| ISE 333 Work Design | 4 |
| Business or nonbusiness electives | |

Spring

| | |
|--|---|
| Mgt 325 Comm. Behavior in Mod. Organization | 4 |
| Mkt 301 Prin. of Mkt. | 4 |
| Acct 310 Cost Acct. | 4 |
| Business or nonbusiness electives | |

Senior

Fall

| | |
|---|---|
| Mgt 425 Labor Relations | 4 |
| BA 411 Prod. Planning & Control | |
| OR | |
| ISE 432 Inventory & Mfg. Control I | 4 |
| Business or nonbusiness electives | |

Winter

| | |
|--|---|
| ISE 440 Industrial Plant Design | 4 |
| QM 401 Operations Research | 4 |
| Mgt 440 Organizational Behavior Ldrshp. & Motiv. ... | 4 |
| Business or nonbusiness electives | |

Spring

| | |
|-----------------------------------|---|
| BA 470 Admin. Policy | 4 |
| BA 412 Prod. Mgt. Prob. | 4 |
| Business or nonbusiness electives | |

*The outlined courses are intended to act as a guide — not as a required sequence. For example, some freshmen should not take MATH 163A first quarter but should instead enroll in MATH 113 or another math course more basic than 163A. A factor influencing this decision is the math proficiency of the individual student. Decisions throughout the four-year program can best be reached by students consulting a faculty advisor for guidance.

**A minimum of 77 hours of nonbusiness courses are required including six hours in humanities, six hours in natural science, six hours in social science, and the required eight hours of mathematics included in the core courses.

The Quantitative Methods Major

The undergraduate major in quantitative methods is designed to prepare students for careers either in data processing and management information systems or as statisticians or analysts in a variety of functionally oriented positions in industry or government. Students majoring in QM also gain the basic knowledge of quantitative methods and techniques that are necessary if they are considering graduate work in administration in statistics, computers and systems, or operations research.

Students choosing the statistics and operations research options are encouraged to also

obtain some depth of knowledge in some functional area *beyond* the core courses to complement their study of quantitative methods.

Graduates of the programs in quantitative methods have obtained jobs in data processing (programmers, systems analysts, customer representatives), as statistical analysts (in quality control, marketing research, financial research), and in operations research (internal company organization research groups, public accounting firms' management advisory services, or management consulting firms).

In addition to the core curriculum for all candidates for bachelors' degrees in the College of Business Administration, a major in quantitative methods consists of a minimum of 24 credit hours of 400-level QM courses, with at least four credit hours in each of the following areas: (1) statistics, (2) computers and systems, and (3) operations research.

Suggested Course Sequences

The first two years would be approximately the same for any sequence.

Freshman

| | |
|-----------------------------|----|
| Math 163A & 163B | 8 |
| Econ 101 & 102 | 8 |
| English and humanities | 8 |
| Social science | 8 |
| *Non-CBA electives | 16 |

48

Sophomore

| | |
|-------------------------|----|
| Acct 101 & 102 | 8 |
| QM 200 & 201 | 8 |
| BusL 255 | 4 |
| Natural science | 8 |
| CBA electives | 8 |
| *Non-CBA electives | 12 |

48

*To meet requirements of 40 percent of work outside the College of Business Administration (CBA) including two courses in math, two courses in natural sciences, two courses in humanities, and two courses in social sciences.

Three possible major programs in quantitative methods and courses (all are four-quarter-hour courses) suggested for those areas are:

Statistics

Junior

| | |
|---|---|
| QM 454 Intern Problem Theory | 4 |
| QM 455 Sampling Theory | 4 |
| QM 403 Statistical Quality Control | 4 |

Senior

| | |
|---------------------------------|---|
| QM 401 Operations Research | 4 |
| QM 420 FORTRAN Programming | 4 |
| QM 438 Nonparametric Stat. | 4 |

Computers and Systems

Junior

| | |
|------------------------------------|---|
| QM 420 FORTRAN Programming | 4 |
| QM 430 COBOL Programming | 4 |
| QM 435 Adv. COBOL Programming | 4 |

Senior

| | |
|---|---|
| QM 490 Systems & Proc. | 4 |
| QM 401 Operations Research | 4 |
| QM 403 Statistical Quality Control | 4 |

Operations Research

Junior

| | |
|----------------------------------|---|
| QM 401 Operations Research | 4 |
| QM 420 FORTRAN Programming | 4 |
| QM 485 Simulation | 4 |

Senior

| | |
|----------------------------------|------------|
| QM 454 Intern. Probability | 4 |
| QM 455 Sampling | 4 |
| QM 491 Mgt. Science Seminar..... | 3, 4, or 5 |

Preparation for Law School

A student in the College of Business Administration who plans to enter law school should follow the bachelor of business administration degree curriculum and also elect, with the approval of his or her advisor, courses in other fields, especially American government, American and English history, English, philosophy, interpersonal communication, and additional theory courses in the College of Arts and Sciences, except those which substantially duplicate material found in the typical law school curriculum.

The Ohio Supreme Court in its regulations governing the admission to the practice of law in Ohio provides that a student entering law school must be able to show possession of an undergraduate degree from an approved college if he or she wishes to take the Ohio Bar Examination. However, the Ohio Supreme Court provides for one possible exception to the preceding regulation — if a person has earned, subsequent to graduation from law school, a bachelor's degree through completion of courses and credits other than those received in law school, and has made a record of academic achievement which is satisfactory to the Ohio Supreme Court, such a person may, in the court's discretion, be permitted to apply for admission to the practice of law in Ohio. Law schools in the state of Ohio have supplemented this Supreme Court rule by requiring an undergraduate degree of all entering students, regardless of the state in which they plan to take the bar examination.

For the benefit of those students who do not plan to take the Ohio Bar Examination and who do not plan to seek admission to an Ohio law school, a degree *in absentia* program is available as described in the following statement.

A student who desires to enter a school of law located outside Ohio at the end of three years of college work and receive the bachelor of business administration degree from Ohio University after completing the first year in law school may do so provided the following conditions are met: the student has the written approval of the dean of the College of Business Administration; a minimum of 144 quarter hours, including the required courses in the bachelor of business administration degree curriculum (BusL 255 excluded), are completed with a point-hour ratio of 2.0 on all hours attempted; a full year's work in an accredited law school is completed with an average equiv-

alent to that prescribed for the bachelor's degree at Ohio University and the student is eligible for advancement without condition to the second year.

If there is any possibility that a student might wish to take the Ohio Bar Examination, he or she is urged to obtain the undergraduate degree before entering law school.

CENTER FOR BUSINESS ENTERPRISES

The Center for Business Enterprises was established to provide advisory services to small businesses in southeast Ohio. It also aims to provide a learning opportunity for students and faculty who participate in case studies that assist small businesses. As a by-product of this dialogue between students, teachers, and practitioners, further research projects are encouraged and facilitated. Special courses to meet the identified needs of small businessmen may be arranged through the University Extension Division. The center is financed through grants and contract funds. It is administered by the Department of Administrative Sciences, but any student or faculty member of Ohio University who has the interest and appropriate preparation or skills may participate.

CENTER FOR COURT ADMINISTRATION

The Center for Court Administration was established to (1) provide focus for the systematic study of the court system as an organizational entity; (2) serve as a forum for the orderly exchange of information about the role of the court system in society; (3) facilitate improvement in court operations through active involvement in the standardization of policies, procedures, and practices where feasible; and (4) to assist the courts in their attempt to service the needs of the community. Center personnel are experienced in the areas of law, the court system, and administration. Graduate and undergraduate students participate in the work of the center through independent study projects. The center is financed through grants and contract funds and is administered by the Department of Management.

CENTER FOR LEADERSHIP STUDIES

The Center for Leadership Studies was established to (1) encourage and support research on leadership and related areas, (2) disseminate information on theory and research to both researchers and practitioners, (3) encourage and support dialogue between researchers and

practitioners, and (4) provide opportunities for students to become actively involved in significant leadership research and interact with professionals in the area. Members of the center have been active in these areas during the past six years. Their work has resulted in the publication of several books and numerous articles, as well as a number of short research notes and working papers. In addition, much effort has been directed toward the development of research instruments and learning devices. Members of the center are also active in consulting and training practitioners in the latest developments on leadership theory and research. The center is financed through grants and contract funds and is administered by the Department of Management.

INSTITUTE FOR SYSTEMS ANALYSIS

The Institute for Systems Analysis was established to provide research, publication, training, and advisory capability for those aspects of managerial and organizational life that are involved with information, information systems, and information technology. Although institute activities focus primarily upon prob-

lems and processes associated with administrative, promotional, or operations-based information systems, other types of information systems are also within its range of competence and interest. Associates of the institute represent several major disciplines and areas of expertise and come from Ohio University; from other colleges and universities; and from business, governmental, and professional organizations. The institute is financed by grant and contract funds and is administered by the Department of Management.

DEPARTMENT OF ECONOMIC EDUCATION

Since 1967 the College of Business Administration has had a Department of Economic Education which offers graduate and undergraduate courses. Through the Office of Graduate Student Services, the department administers the MA program in economic education and provides a major in economic education for the PhD program in secondary education. The latter is unique in the nation and has placed Ohio University in a national leadership role in developing teachers and administrators in this field.

The College of Communication

John R. Wilhelm, *Dean*

Thomas Dunlap, *Assistant Dean*

Dudley Williams, *Assistant to the Dean*

The College of Communication includes the School of Interpersonal Communication, the School of Journalism, and the School of Radio-Television, and the Institute of Visual Communication.

The college was created to meet more fully the communication needs of a changing society. New forms of communication; the growth of the communication systems, and the need for better communication between peoples, races, economic groups, and among nations generally were all factors in a decision that Ohio University should move on a broad and substantial basis to prepare graduates for both traditional roles and for responsibilities not previously acknowledged.

The college is equipped to train graduates for professional careers in journalism, in broadcasting, for telecommunications, in visual communications, for organizational and interpersonal communication. The college operates on the assumption that professional competency in these areas calls for the highest possible proficiency in the field of specialization, plus the broadest possible liberal education in other disciplines.

In journalism, a fully accredited school offers work in advertising, magazine journalism, news-writing and editing, public relations, radio-television, and foreign correspondence.

The journalism school is the fourth largest in the country, and each year graduates more than 200 seniors who move into professional careers on leading newspapers, magazines, and news-gathering organizations as well as into advertising and public relations positions. Careers take them to all parts of the world.

The School of Radio-Television trains professionals for work in broadcasting generally, with specialized careers in radio-television news, station and network management, radio

and television production and programming, as well as combined courses with the School of Journalism in reporting, editing, public relations, and advertising.

Students work in the University broadcast services at radio station WOUB and the University television station, WOUB-TV, for actual experience.

The School of Interpersonal Communication offers courses in public speaking, debate and discussion, small group and organizational communication, persuasion, rhetoric, the history of public address, etc. Students may study the problems and processes of communication first hand in business, industrial, educational, and other types of organizations in the Center for Communication Studies and the Resource Center for Speech Communication. An inter-collegiate forensic program is open to all interested students.

All programs of study at the undergraduate level lead to the bachelor's degree. More detailed descriptions and the requirements for the various majors offered in the schools are given in the pages immediately following.

Graduate programs leading to the MA and PhD degrees are available in all areas. These are described in detail in the bulletins issued by the Graduate College.

Degrees and Requirements

The College of Communication offers curricula leading to the degrees of bachelor of science in communication (in the schools of Interpersonal Communication and Radio-Television), bachelor of arts (School of Interpersonal Communication), and bachelor of science in journalism (School of Journalism).

Each candidate for a degree in the College of Communication must satisfy the requirements established by the school in which he or

she is enrolled. In addition to program requirements for completion of the bachelor's degree, a student must check with the proposed school for possible entrance requirements which are separate from admission to the college. Those requirements are specified on the following pages.

Also the student must have a minimum total of 192 earned hours with a 2.0 (C) average in that total. He or she must also have a 2.0 (C) average in all hours attempted in the program. Only the final hours earned when courses are repeated count toward graduation.

The minimum residence requirement for a student receiving a bachelor's degree from the College of Communication shall be the final year (three quarters) or the final 48 hours of credit. In certain cases exceptions to the residence requirement may be made by the academic dean in consultation with the director of the school which the student plans to enter.

Advising

A student entering the College of Communication is assigned an advisor by the school which he or she plans to enter. Advisors will be assigned on the basis of student interest. Faculty advisors assist in the preparation of a schedule each quarter so that the proper sequence of courses in the major and appropriately related courses are selected. *The student, however, is responsible for seeing that all requirements for the degree are being met.*

Scholarships

Scholarships sponsored by the four schools within the College of Communication for qualified undergraduate students are available on an annual basis. Inquiries on the scholarship program should be directed to the scholarship chairman of the student's intended area of study.

Institute of Visual Communication

The School of Journalism in cooperation with the School of Art in the College of Fine Arts offers a visual communication degree program with sequences in picture editing, photo communication, photo illustration, multimedia, educational media, performing arts communication, medical illustration, and electronic visual communication. Students can earn either a bachelor of science in journalism or a bachelor of fine arts.

For details contact the dean of the College of Communication, RTV-Communications Building, or the dean of the College of Fine Arts, Trisolini Gallery.

SCHOOL OF INTERPERSONAL COMMUNICATION

Paul H. Boase, *Director*

The School of Interpersonal Communication offers a general, liberal education, emphasizing the scientific and artistic bases of communication. Students in three undergraduate majors study group communication and public address; communication theory and process; organizational communication as applied to business, industrial, and educational institutions; and speech communication in the secondary schools.

Specific major programs are developed to meet the needs of each student. A combination of areas and specific courses can lead to professional or preprofessional competence in such fields as teaching, foreign service, law, politics and government, theology, public relations, labor-management relations, personnel, campaign and propaganda administration, and poll and survey management. The School of Interpersonal Communication places qualified undergraduate and graduate majors in trainee or internship programs on a credit or noncredit basis as suitable opportunities arise.

Through its forensic program, interpersonal communication provides the opportunity for all students to meet outstanding undergraduates from 300 or more colleges and universities in intellectual competition. Thirty tournaments at other schools and three held on campus enable students to develop skills in debate, extemporaneous speaking, oratory, discussion, and oral interpretation. Excellence in scholarship and superior performance in speech communication are rewarded in several ways. Delta Sigma Rho-Tau Kappa Alpha national honorary is open to students in the upper third of their class who excel in forensics. The Lorin C. Staats Award is given to the outstanding senior who has participated with distinction in several forensic areas. The outstanding junior or senior debater receives the Francis McVicker Maxwell Award.

Center for Interpersonal Communication Resources

The Center for Interpersonal Communication Resources identifies, develops, and utilizes both human and material resources to help meet academic, professional, business, and public service communication needs and interests. Center personnel plan, develop, and hold seminars, conferences, and in-service training programs in human communication for the University community in the southeastern Ohio region.

Listening Laboratory

The laboratory contains stations for listen-

ing to tapes, recorded speeches, and films and provides audio-visual materials for teaching, research, and learning. A closed-circuit television studio is available for class instruction. These facilities are open to students and faculty throughout the University.

Preparation for Law School

A student in the School of Interpersonal Communication who plans to enter law school normally completes a course of study which leads to the bachelor of science or bachelor of arts degree. The objectives of prelegal education, as stated by the Association of American Law Schools, are: 1) comprehension and expression in words, 2) critical understanding of the human institutions and values with which the law deals, and 3) creative power in thinking.

The prelaw student in interpersonal communication will be individually advised and counselled so that he or she might not only meet these educational goals within a liberal and humanistic course of study but also develop preprofessional competence according to his or her own special career aims in the legal profession. Since no prescriptive curriculum is specified, the student can combine several areas and courses, usually from as many of the following as possible: communication theory, practice and literature, English composition and literature, history, political science, behavioral sciences, humanities, comparative arts, economics, philosophy. Curricula and activities which develop the capacity for independent thought are strongly recommended.

General Requirements for All InCo Majors

1. InCo 101 or InCo 103
2. Five hours of English selected from the following courses: 171 A-J and 172.
3. *General Communication and Organizational Communication majors*
Nine hours in each of two of the following groups:
Humanities
Mathematics
Natural Sciences
Social Sciences
4. *General Speech with Certification Majors*
Forty-five hours of general education distributed to include at least two courses in each of the following fields:
Science and mathematics (one course in each)
Comparative arts and/or philosophy
Social science (Psy 101 required and can be counted as one of two courses)
English and/or foreign language (InCo 103 required)

Major in General Communication

Maximum freedom of choice in course selection is the primary feature of this major. Its aim is development of a broadly trained student in the liberal arts — humanistic aspects of interpersonal communication. Majors may prepare for careers in law, industry, theology, higher education, etc.

The following format for all majors is being revised. Although the general plan remains the same, students entering in 1979 should pick up revised check sheets at the InCo office, Room 107, Kantner Hall.

A. Required courses: 12 hours

Four courses are specifically required:

- InCo 107 — Introduction to Language Behavior
- InCo 205 — Techniques of Group Discussion
- InCo 215 — Argumentation and Debate
- InCo 450 — Introduction to Rhetorical Theory

B. Additional major courses: 40 hours

Students must select one course in *each* of the following areas:

| | |
|----------------|----------------------|
| Public Address | Communication Theory |
| InCo 353 | InCo 234 |
| A, B, C or D | InCo 446 |
| InCo 312 | InCo 452 |
| InCo 433 | |
| InCo 435 | Group Process |
| InCo 342 | InCo 404 |
| InCo 458 | InCo 405 |
| | InCo 245 |

Students must select one course in *three* of the following areas:

| | |
|--------------|------------------|
| Theater Arts | Radio-Television |
| ThAr 170 | R-TV 105 |
| ThAr 110Y | R-TV 270 |
| ThAr 301 | R-TV 467 |
| ThAr 370 | R-TV 470 |
| ThAr 371 | R-TV 479 |
| ThAr 372 | |

| | |
|-----------------------------|------------|
| Hearing and Speech Sciences | Journalism |
| HSS 108 | Jour 105 |
| HSS 209 | Jour 311 |
| HSS 210 | Jour 412 |
| | Jour 466 |

The remainder of the 40 hours may be selected from interpersonal communication, radio-television, theater, journalism, or hearing and speech sciences.

C. General electives as necessary to complete minimum University requirement of 192 quarter hours for graduation.

Major in General Speech with Certification

This major provides a program for students interested in high school teaching. The emphasis stresses a liberal arts education as related to interpersonal communication and professional preparation for state teaching certification.

This major provides three program options to students enrolled in the School of Interpersonal Communication: A communication comprehensive emphasis (90 quarter hours), a speech emphasis (60 quarter hours), and a speech-theater emphasis (68 quarter hours). The comprehensive communication program will certify a student to teach speech, journalism, reading, and English, or any combina-

tion thereof in high school. The other programs will certify in speech only; the first emphasizes speech communication, the latter speech and theater. For details of these programs, see the *College of Education* section of this catalog, or contact director's office, School of Interpersonal Communication, Kantner Hall.

Major in Organizational Communication

This major provides a challenging program of study across the broad spectrum of human communicative behavior, emphasizing both theoretical bases and practical applications. It is designed for those students aiming for professional careers and administrative positions in business, educational, governmental, industrial, labor, or other organizational units.

A. Major Course Requirements

| | | |
|-----------------------------------|-------------------------------------|---|
| InCo 205 | Group Discussion | 4 |
| InCo 210 | Parliamentary Procedure | 2 |
| InCo 234 | Intro. to Communication Theory ... | 5 |
| InCo 245 | Intro. to Organizational Comm. | 4 |
| InCo 342 | Communication and Persuasion | 4 |
| InCo 404 | Prin. & Tech. of Interviewing | 4 |
| InCo 446 | Communication and the Campaign .. | 5 |
| InCo 498 | Special Problems | 4 |
| InCo Electives (16 hours minimum) | | |

B. Requirements Outside the Major

Eng 308 or Mgt 325

C. Related Courses and Proficiency Requirements

1. Psy 121
2. Completion of two related areas (minimum of 26 hours in each with at least 15 hours from courses numbered 200 or above) from single discipline or interdisciplinary studies such as:
 - Behavioral Sciences
 - Comparative Arts
 - Government and Political Science
 - Humanities
 - Personnel Management and Administration

D. General electives as necessary to complete minimum University requirement of 192 quarter hours for graduation.

SCHOOL OF JOURNALISM

Guido H. Stempel III, *Director*

BACHELOR OF SCIENCE IN JOURNALISM

The Ohio University School of Journalism is accredited by the American Council on Education for Journalism. It is one of a limited number of accredited schools and departments of journalism in the United States. It is one of the members of the American Association of Schools and Departments of Journalism.

Purposes and Objectives

The purposes of the Ohio University

School of Journalism are (1) to provide thorough broadly based *professional* education and training in journalism and communications, leading to the BSJ and advanced degrees; (2) to provide *liberal* and *cultural* background in the arts, literature, languages, social, and natural sciences; (3) to promote scholarly research and achievements by the faculty and students; (4) to provide leadership and assistance to high school journalism and to professional associations on state, national, and international levels; and (5) to set high standards of journalism ethics.

Journalism today is a profession — like medicine, law, teaching, or engineering. It requires its practitioners to be culturally educated and professionally trained. Blending the liberal arts with professional courses, Ohio University journalism students take approximately three-fourths of their courses outside the professional school.

Five sequences are offered, all leading to the bachelor of science in journalism degree: advertising, magazine journalism, news writing and editing, public relations, and radio-TV news.

Courses in photojournalism are taught by the School of Journalism.

While working toward their degrees, students may serve on the staff of *The Messenger*, an independently owned daily newspaper. The city editor, managing editor, sports editor, and women's editor are faculty members of the School of Journalism. The student staff members of *The Messenger* gather and write news, edit local and Associated Press copy, write headlines, and prepare copy and layouts. This training prepares students to take and hold jobs immediately after graduation.

Practical experience is also available on a laboratory magazine and in graphics and advertising laboratories. Many students add to their experience by helping edit *The Post*, daily campus newspaper, or the *Spectrum Green*, University yearbook.

In radio-television news, students get practical experience in preparing and broadcasting news over the University's radio and television stations.

Internship Program. Consistent with its policy of combining classwork with practical training, the School of Journalism has a journalism internship program. Juniors or seniors are eligible for appointment as interns. The period of internship is ten weeks. The intern is provided with as varied experience in practical journalism as possible and is paid a moderate sum for his or her work and study. No credit will be granted for internship work itself. However, upon completion of the internship period, a student is permitted to enroll the following quarter in Jour 462, Internship, for three hours of credit. The selection of the interns is made by the director of the journalism internship program.

Curricula and Requirements

The American Council on Education for Journalism includes among its Accrediting Standards the following provision:

Generally three-fourths of the student's program should consist of courses in the liberal arts and sciences and one-fourth in professional courses in journalism.

Journalism students at Ohio University meet the above provision largely by fulfilling two sets of requirements: general and specialization area requirements. The first of these provides for a liberal arts and sciences core for all students, as follows:

Political Science (2 qtrs)
Sociology or Anthropology (2 qtrs)
Economics (2 qtrs)
Psychology (1 qtr)
History (3 qtrs)
English (2 qtrs)

Two of the following:

Language (3 qtrs basic sequence or 1 qtr advanced)
Science (3 qtrs of one science in accord with Arts and Sciences catalog description)
Computer Science, quantitative methods, statistics (3 qtrs)
Philosophy (2 qtrs, one of which must be logic)
Comparative Arts (3 qtrs)
Black Studies (3 qtrs)

To this liberal base, which should be the focus of the freshman year, journalism students add courses in a desired area or areas of specialization. This requirement may be filled by completing any one of three options:

1. a minimum of 36 hours in a single department within the College of Arts and Sciences (usually structured in accordance with the major requirements of the selected department),
2. a minimum of 18 approved hours in each of two departments in Arts and Sciences,
3. a minimum of 18 approved hours in one Arts and Sciences department and 18 approved hours in any other series of related courses.

Additional nonjournalism courses are required in some sequences. No course may be counted in more than one type of requirement. For example, a course used to meet a general requirement may not be applied to a sequence or specialization area requirement as well.

To assure the liberal stress of the overall program, the professional content of the BSJ is limited to one-fourth of the 192 hours required for the degree. Credits for all courses in journalism, radio-television, and photography should total at least 45 hours and not more than 55 hours. All professional hours beyond 55 must be compensated for by nonprofessional hours over the required 192-hour total. Non-journalism courses which are required in sequences are not to be counted as part of the 45-55 total professional hours.

Standards

1. To qualify to take Jour 231, students must first pass an English proficiency examination. Passing score for this test is 75. Any student who does not pass on the first effort will be permitted to retake the examination at a later date. Passing scores on retake examinations are 75 if the exam is taken as a sophomore and 80 for juniors and seniors.
2. To qualify for admission in Jour 231 students must achieve at least 25 words per minute on a typing examination. This exam is administered on the first day of the Jour 231 class.
3. To remain active in the BSJ program, a student must earn at least a C in News Reporting.

Journalism Sequences

All journalism majors complete a basic 20-hour core of five courses. These are: Jour 221, Graphics (5); Jour 231, News Reporting (4); Jour 333, News Editing (4); Jour 411, Newspaper and Communications Law (4); and Jour 412, Mass Media and Society (3). A grade of C or better is required in 231, 333, 411, and 412.

Jour 105, Introduction to Mass Communication, a freshman course, is optional, but recommended for all those entering journalism.

The additional requirements for the various sequences are as follows:

Advertising

| | | |
|--|---------------------------------|---|
| Jour 250 | Advert. Prin. | 5 |
| Jour 321 | Newspaper Advert. & Layout | 4 |
| Jour 323 | Newspaper Advert. Prac. | 2 |
| OR | | |
| Jour 462 | Internship. | 3 |
| Jour 450 | Advert. Copy Wrting | 3 |
| Jour 482 | R-TV Advert. & Mgt. | 4 |
| Journalism electives to make 45-55 hours | | |
| Mkt 301 | Mkt. Prin. | 4 |

Public Relations

| | | |
|---|----------------------------|---|
| Jour 331 | Rptng Contemp. Issues | 3 |
| Jour 332 | Rptng Prac. | 2 |
| OR | | |
| Jour 462 | Internship. | 3 |
| Jour 430 | Mag. Edit. & Prod. | 4 |
| Jour 471 | PR Prin. | 5 |
| Jour 472 | Adv. PR. | 4 |
| Choose two: | | |
| Jour 441 | Mag. Feature Wrting | 4 |
| Jour 351 | News in Brdstng. | 5 |
| Jour 450 | Advert. Copy Wrting | 3 |
| Jour 465 | Editorial Page | 3 |
| Journalism electives to make 45-55 hours | | |
| Select one course from Soc 210, 211, 412, 413, or 414 | | 4 |

Magazine

| | | |
|---|--------------------------------|---|
| Jour 311 | Hist. of Am. Jour. | 4 |
| Jour 430 | Mag. Ed. & Prod. | 4 |
| Jour 431 | Mag. Editing Practice | 3 |
| Jour 441 | Mag. Feature Wrting | 4 |
| Select two: | | |
| Jour 331 | Rptng Contemp. Issues | 3 |
| Jour 363 | Review & Crit. | 3 |
| Jour 432 | Specialized Mags | 3 |
| Jour 442 | Adv. Mag. Feature Wrting. | 3 |
| Journalism elective to make 45-55 hours | | |

| | | |
|---------|------------------------------|---|
| Eng 307 | Struct. of Am. English | 5 |
| OR | | |
| Eng 308 | Adv. Comp. | 5 |
| OR | | |
| Eng 309 | Creative Wrtng | 5 |

News Writing and Editing

| | | |
|------------|-------------------------------|---|
| Jour 311 | Hist. of Am. Jour. | 4 |
| Jour 331 | Rptng Contemp. Issues | 3 |
| Jour 332 | Rptng Prac. and | 2 |
| Jour 334 | Edit. Prac. | 2 |
| OR | | |
| Jour 462 | Internship | 3 |
| Jour 464 | Rptng Pub. Affairs | 3 |
| Journalism | electives to make 45-55 hours | |

Radio-Television News

| | | |
|------------|--|---|
| Jour 351 | News in Brdstng | 5 |
| Jour 353 | R-TV News Prac. | 2 |
| OR | | |
| Jour 462 | Internship | 3 |
| Jour 452 | TV Newsfilm Prod. & Edit. | 3 |
| Jour 455 | Seminar in Brdst News | 3 |
| R-TV 106 | Intro. to R-TV | 4 |
| R-TV 200A | Broadcast Writing & Production Planning | 4 |
| Journalism | electives to make 45-55 hours | |

Car Van Anda Program

A junior with a 3.0 accumulative average in journalism and 2.5 accumulative average in all work may elect a sequence making up his or her own program in journalism. It will consist of the basic core of five courses plus the student's choice of journalism courses to equal 45-55 hours. The program must have the approval of the student's advisor and the director of the School of Journalism. Formal application is necessary.

SCHOOL OF RADIO-TELEVISION

Drew McDaniel, *Director*

The School of Radio-Television offers programs of study leading to bachelor's, master's, and doctoral degrees. The baccalaureate program is a professional degree program and is designed to prepare students for meaningful careers in all aspects of telecommunications. Areas given special attention are radio and television production, the business aspects of broadcasting, broadcast advertising, writing, broadcast news, nonbroadcast video, audio recording, broadcast criticism, international radio and television, broadcast law and regulation, radio and television performance, and educational broadcasting.

The classroom and laboratory experiences of the students are augmented by a variety of practical experiences including work with the All Campus Radio Network and the three University owned and operated stations: WOUB-AM, WOUB-FM, and WOUB-TV.

Affiliation with the National Association of

Educational Broadcasters, the International Radio and Television Society, the Ohio Association of Broadcasters, National Association of Television Program Executives, and the National Association of Broadcasters provides opportunities for contacts and broad development in the broadcasting field.

Scholarships in the amount of \$495 per year are awarded to qualified first-year radio-television majors.

In addition, the following awards are available in radio-television:

1. The Jesse Zousmer Fund provides annual grants for students in broadcasting and news in the name of the alumnus and former head of ABC News.

2. The Richard Linke scholarship assists students in radio-television or related areas of the College of Communication.

3. Each year monetary awards for outstanding achievement are given to undergraduate majors.

4. The Outstanding Student award is granted annually to the senior attaining the highest levels of academic achievement and extracurricular broadcast experience.

5. The Robert L. Coe Memorial Scholarship is awarded to a student who has interests in broadcast administration or engineering. Coe was a former professor in the school and a former vice president of ABC Television.

REQUIREMENTS FOR MAJOR IN RADIO-TELEVISION

General Requirements

1. *Arts and humanities* — 20 quarter hours, including at least eight hours of 300-400 level courses. Courses may be elected in the following: art, art history, classical languages, comparative arts, English, film, modern languages, music, philosophy and theater.

2. *Social sciences* — 20 quarter hours, including at least eight hours of 300-400 level courses. Courses may be elected in the following departments: anthropology, economics, history, international studies, management, marketing, political science, psychology, or sociology.

3. *Communication sciences* — 20 quarter hours, including at least eight hours of 300-400 level courses. Courses may be elected in the following departments: computer science, hearing and speech sciences, interpersonal communication, journalism and linguistics.

4. *Mathematics and/or natural sciences* — 10 quarter hours. Courses may be elected in the following departments: astronomy, biology, botany, chemistry, geology, mathematics, physical science, physics, zoology, and geography courses relating to physical geography.

With advisor's approval, courses may be selected from the Black Studies Institute and University Professor offerings to fulfill general requirements.

Required Courses For All Radio-Television Sequences

| | | |
|-----------|---|---|
| R-TV 106 | Intro. to R-TV | 4 |
| R-TV 200A | Intro. to Prod. & Wrng for Electronic Media | 4 |
| R-TV 200B | Intro. to Radio Production | 2 |
| R-TV 200C | Intro to Television Production | 2 |
| R-TV 270 | Brdcstng & Pub. | 4 |
| R-TV 355 | Brdcst Programming | 4 |
| R-TV 453 | Brdcst Law & Regulations | 4 |

Sequence Requirements

Undergraduate radio-television freshmen and sophomores will be considered provisional majors. To be eligible to transfer from provisional status to one of the three major sequences described below, a student must (1) complete 90 quarter hours; (2) attain a C (2.0) average in the following five courses: R-TV 106, R-TV 200A, R-TV 200B, R-TV 200C, and R-TV 270; and (3) have a program of study which satisfies one of the following sequences as approved by the student's advisor:

Comprehensive Sequence

This plan of study offers students a broad exposure to telecommunication, and also provides for the development of a specialization in one of a number of areas within the field. Plans of study are individually developed by students, in consultation with their advisors. The following is required of students in the sequence:

| | |
|--|----|
| R-TV courses supporting program goals | 24 |
| Corollary courses supporting program goals | 35 |

Program goals are jointly developed by student and advisor to provide adequate training in the specialization desired, and to ensure breadth of instruction in radio-television.

Professional Management/Administration Sequence

Students will be selected for this sequence on a competitive basis. This plan of study is aimed at providing an understanding of the managerial processes and knowledge which are basic to the development of managerial skills. The following courses are required:

| | | |
|--|--------------------------------|---|
| R-TV 459 | Audience Research | 4 |
| R-TV 460 | Brdcst Mgt. | 4 |
| R-TV 461 | Electronic Media Mgt. I | 4 |
| R-TV 462 | Electronic Media Mgt. II | 4 |
| R-TV electives with advisor approval | 8 | |

In addition to general requirements, at least 35 hours from the following: accounting, business administration, business law, computer science, economics, finance, management, marketing. Selections in this sequence must include Econ 101-102, Acct 101-102, Mgt 300.

Professional Broadcast Production Sequence

Students will be selected for this sequence on a competitive basis.

This plan of study is aimed at providing advanced skills in radio or television production with special emphasis on the creative responsibilities of production direction. The following courses are required:

| | | |
|--|-----------------------------------|---|
| R-TV 208 | Technical Bases of R-TV | 4 |
| R-TV 413 | Adv. Radio Prod. | 4 |
| OR | | |
| R-TV 431 | Dramatic & Documentary Wrng | 4 |
| OR | | |
| R-TV 452 | TV Newsfilm Prod. & Edit. | 3 |
| R-TV 417 | TV Prod.-Dir. | 4 |
| R-TV 418 | Adv. TV Prod.-Dir. | 4 |
| R-TV electives with advisor approval | 8 | |

In addition to general requirements, at least 35 hours in the areas of theater arts, film, art, art history, comparative arts, dance, graphic design, music, photojournalism.

Other Requirements and Standards

In order to transfer into radio-television, either from other institutions or within the University, students must have earned 48 quarter hours (32 semester hours) with a minimum GPA of 2.5. In addition, such transfer students will be required to attain a C (2.0) average in the first 12 hours taken in radio-television in order to remain eligible to continue as majors.

Students transferring into the School of Radio-Television from another institution will be allowed to apply no more than 30 quarter hours of credit in broadcasting toward their degree requirements. Further, a minimum of 20 hours in radio-television must be taken at Ohio University.

Students are expected to demonstrate proficiency in typing and basic language skills.

No course which is selected to fulfill any requirement may be taken on a pass/fail basis by a radio-television major.

No course may be counted in more than one type of requirement. For example, a course used to meet a general requirement may not also be used to meet a sequence requirement.

The College of Education

Fred B. Dressel, *Acting Dean*

The College of Education is a professional college and therefore its major goal is the preparation of persons to become professionals in the educative process both in and out of school settings. A wide range of programs is offered for teaching in elementary and high schools, other educational positions, and for nursing. The college provides graduate study in a wide range of professional education fields.

All undergraduate programs include a broad base of general education, intensive preparation in the subject matter field, and professional emphasis and focus which combine educational theory with actual practice in meeting the responsibilities of the profession. Each program is thus designed to prepare students to enter professional positions possessing the liberal background, functional knowledge, and professional understanding and skill which are required for professional success.

The College of Education is accredited by the North Central Association and the National Council for Accreditation of Teacher Education and is approved for teacher training by the State Department of Education of Ohio.

BACHELOR OF SCIENCE IN EDUCATION

The degree, bachelor of science in education, represents the completion of a program designed to develop in the student competence in three areas: the broad awareness of the principal academic fields developed through a true university education; the deeper study of the particular areas in which the student seeks the undergraduate mastery necessary for teaching and/or applying these subjects; and the understanding of the professional responsibilities of education and demonstrated skill in meeting them.

The degree is granted upon completion of the general graduation requirements of the University, including a minimum of 192 quarter hours with a point-hour ratio of 2.0 (C) on all hours attempted, but including only the final hours and points in repeated courses, and in addition a 2.0 point-hour ratio in the major field.

Besides these general University requirements each student must complete the requirements established for the program he or she is following.

NOTE: For pass/fail option, see the *Credit and Grading* section of this catalog.

A student who plans to teach in the elementary grades registers in the College of Education. The curricula offered by the College of Education include the requirements of the State Department of Education and qualify a student to obtain a provisional certificate to teach in the elementary grades and kindergarten, depending upon the student's preparation.

A student who plans to teach high school academic or special subjects ordinarily enrolls in the College of Education. The curricula of the College of Education include the requirements of the State Department of Education, and qualify the student to obtain a provisional certificate to teach the subjects indicated on the certificate.

A student who plans to teach in special education classrooms registers in the College of Education. The curricula offered by the College of Education include the requirements of the State Department of Education and qualify a student to obtain a provisional certificate to teach in educable mentally retarded and learning disabled classrooms.

SELECTIVE ADMISSION AND RETENTION

The college has a program of selective ad-

mission and retention that applies to all students who intend to complete the teacher preparation program through Ohio University. The purpose of the selective admission and retention program is to provide both the student and the college with an opportunity to assess each student's capabilities as a prospective teacher. There are three selection phases in this program, two of which are described below and the third phase is detailed under Student Teaching.

Admission to Teacher Education

Application for admission to teacher education should be made during the third quarter of the freshman year. The criteria students must meet by the end of the quarter in which they apply are:

1. Completion of 45 quarter hours of credit.
2. Completion of Psy 101.
3. Sufficient grade point average to be above probationary status.

Applications for admission to teacher education may be obtained in the Student Personnel Services Office, McCracken Hall.

Students may not enroll in EdEl 200, EdSe 250, EdSp 271, EdSp 272, EdSp 373, or EdSp 470 unless they have been admitted to teacher education.

Admission to Junior Standing

Application for admission to junior standing in teacher education should be made at the end of the third quarter of the sophomore year. Criteria should be met by the end of the quarter in which the student applies.

1. Criteria that must be met by all students in teacher education:
 - A. Completion of 90 quarter hours of credit.
 - B. Completion of EdCl 275 or Psy 275.
 - C. Satisfactorily meeting the speech proficiency requirement.
 - D. Attainment of a 2.0 accumulative point-hour ratio.
 - E. A satisfactory report from the Health Center.
 - F. A satisfactory report from the academic advisor.
 - G. A satisfactory report from Student Records Office.
2. Special criteria for students in elementary education: Completion of EdEl 200.
3. Special criteria for students in secondary education:
 - A. Completion of EdSe 250.
 - B. Achievement of a 2.0 accumulative point-hour ratio in each of the declared teaching fields.
 - C. Adequate progress toward completion of the 45 quarter hours of general education required by the state certification law.

4. Special criteria for students in special education:
 - A. All special education majors except those in speech and hearing therapy must complete EdSp 271, 272, 373, and 470 and EdEl 200.
 - B. Speech and hearing therapy majors must complete EdSp 271 or Psy 376.

Students must be admitted to junior standing in teacher education prior to enrolling in any of the following courses: EdEl 310, 321, 330, 340, 350, and 460; all secondary education courses numbered 300 or above; all special education courses numbered 300 or above *except* for 373 and 470.

SCHOOL OF CURRICULUM AND INSTRUCTION

The School of Curriculum and Instruction comprises three major academic areas — elementary education, secondary education, and special education, and courses in educational media, international and comparative education, and educational foundations. The school provides the opportunity for students admitted to teacher education to pursue undergraduate courses leading to teacher certification in the State of Ohio. Listed below are program descriptions and course requirements for each of the certification patterns offered.

A junior or senior who has a 3.0 accumulative grade point average and is able to schedule 15 to 18 hours of independent study in the department may be eligible for departmental honors. Honors work extends beyond the required teacher-education course sequences.

ELEMENTARY EDUCATION PROGRAM

In order to receive a BSEd degree and certification in elementary education students must complete the total program in elementary education. Upon completion of the program students are eligible for a four-year provisional teaching certificate for teaching in grades one to eight. Kindergarten certification may also be obtained by completing the necessary kindergarten requirements as specified below.

General Education

Psy 101 — Gen. Psych. 5
 English 14
 Freshman and junior English composition courses taken to satisfy the University English composition requirement (See English Composition Requirement in the Graduation Requirements section of this catalog) may be used toward completion of these hours.
 These hours include InCo 101 or 103 which is required unless a semester or more of speech has been completed in high school. If InCo is waived on this

basis, then these hours must be made up in English. Each student must also complete Ling 270.

| | |
|------------------------------------|----|
| Mus 160 — Music Fundamentals | 3 |
| Natural Science | 12 |

All students must complete at least 12 quarter hours of science including at least one course in biological science and one course in physical science. Recommended choices include Bot 101 or Zool 101, Bot 102, PSc 101L, 102L, and 103L. Other possibilities include any courses in zoology, botany, chemistry, physics, and geology. All courses taken to complete this requirement must contain a laboratory component.

| | |
|-------------------|---|
| Mathematics | 9 |
|-------------------|---|

Math 120 and 121 are recommended; however, any mathematics courses numbered above 120 and equaling nine quarter hours would be acceptable.

| | |
|----------------------|----|
| Social Studies | 27 |
|----------------------|----|

Each student is required to complete at least 27 quarter hours of social studies. Social studies is defined as any history, political science, economics, sociology, anthropology, social welfare, geography, and economic education course.

Specific requirements are the completion of at least one course in American history or American government, and Geog 121 — Cultural Geog.

| | |
|--------------------------|---|
| Physical Education | 4 |
|--------------------------|---|

HPER 202 — Personal & Community Health required.

No more than six hours of HPER activity courses may be counted toward the degree and none count in general education.

Professional Sequence

The following professional courses are required of all elementary education majors. To be eligible to enroll in these courses students should note the prerequisites in the course description section of this catalog.

| | |
|--|---|
| EdCl 275 — Learning Proc. in Classroom OR Psy 275 — Educ. Psych. | 5 |
| Art 360 — Art for Elem. Tchr. | 6 |
| Mus 161 — Music for Classroom Tchr. | 3 |
| HPER 270 — Tchng. of Phys. Ed. | 3 |
| EdEl 200 — Studies of Children | 4 |
| EdEl 310 — Tchng. of Reading & Lang. Arts in Elem. School. | 6 |
| EdEl 321 — Children's Lit. | 4 |
| EdEl 330 — Tchng. of Math. in Elem. School | 4 |
| EdEl 340 — Tchng. of Science in Elem. School | 4 |
| EdEl 350 — Tchng. of Social Studies in Elem. School | 4 |
| EdEl 460 — Child & Curriculum — (This course is to be taken after the completion of or con- currently with student teaching) | 4 |

Plans A, B, and C

Each elementary education major is assigned to a given plan to help assure that he or she will get the professional courses needed prior to the quarter in which student teaching is scheduled. Students are assigned to one of three plans to equalize section enrollments by quarters, including student teaching. (Plan sheets are available in the office of the School of Curriculum and Instruction, 119 McCracken Hall.)

Kindergarten-Primary Sequence. Students seeking kindergarten-primary certification should complete the regular elementary education program plus EdEl 306 (6 hours), specialized course in theory, materials, and methods of kindergarten education. Also, student teaching must be done on the kindergarten

level. Students seeking this certification will complete one quarter of student teaching in an elementary situation followed by an additional part-time student teaching assignment in a kindergarten.

20-Hour Concentration. A 20-quarter-hour concentration is required. This concentration may be in any department outside the College of Education. The 20 hours are to be beyond any of the general education requirements. For example, if a student wishes to complete the concentration in psychology, he or she would have to complete 20 hours beyond Psy 101 and Psy 275 which are already required. A student may not combine several fields to make a concentration. In other words, the 20 hours must be in one field or one department. The only exception is in the case of a person wishing to concentrate in science. He or she may combine several sciences to complete the concentration. Note that special education can NOT be used as a 20-hour concentration.

Professional Laboratory Experience

| | |
|--|---|
| EdPl 360 or 361 Field Exper. in Elem. or Second. Schools or Field Service in Educ. | 2 |
|--|---|

Field experience is a course in which a student spends a minimum of nine days observing and participating in an elementary classroom in a school of his or her choice in September prior to the start of the University. This should be done the September prior to the start of the junior year in college. Once the University commences there is only one evening meeting to attend. A student must register for this course as for any other course and must also sign up for it in the Field Experience Office, Room 129, McCracken Hall, in May prior to the September when it is to be done. Anyone interested in EdPl 361 — Field Service — rather than field experience should contact the Field Experience Office for information.

| | |
|--|-------|
| EdPl 461 and 462 Stu. Tchng. in Elem. School ... | 7 + 6 |
| EdPl 465 Stu. Tchng. Seminar | 3 |

These three courses are taken concurrently in one quarter and constitute the student teaching requirement. Additional student teaching is required of students seeking kindergarten certification. A person should make an application for student teaching by December 1 of the year prior to the year in which student teaching is to be taken. For example, anyone doing student teaching during any of the three quarters of the school year 1980-81 should apply by December 1, 1979. For further information contact the Field Experience Office.

ELEMENTARY EDUCATION/ EARLY CHILDHOOD

The purpose of this program is to prepare persons to meet State of Ohio teacher certification requirements as elementary teachers and

to be prepared to be teachers in preschool. At the present time, there is no teaching certificate for preschool; however, such certification is being discussed and may be enacted in the near future. The preschool aspect of this major meets what is currently being discussed as possible certification requirements.

The current program in preschool teaching is part of the School of Home Economics and the current program in elementary education is part of the School of Curriculum and Instruction. This program would provide for each student to choose the school and college in which he or she wishes to enroll; therefore, a student could earn either a bachelor of science in home economics or a bachelor of science in education. Either way the student chooses, he or she would follow the same program and earn the same certificate.

General Education

| | |
|--|-----|
| Psy 101, Gen. Psych. | 5 |
| English | 14 |
| These hours include InCo 101, Fundamentals of Speech, or InCo 103, Pub. Spkng., which is required unless a semester or more of speech has been completed in high school. If InCo is waived on this basis, then these hours must be made up in English. Each student must also complete Ling 270, Nature of Lang. | |
| Freshman and junior English composition courses taken to satisfy the University English composition requirement (see English Composition Requirement in the Graduation Requirements section of this catalog) may be used toward completion of these hours. | |
| Mus 160, Music Fundamentals | 3 |
| Natural Sciences | 13 |
| Zool 101, Prin. of Biology | |
| OR Bot 101, Prin. of Biology | 5 |
| Zool 103, Human Biology | 4 |
| One physical science course with a lab component .. | 4 |
| Mathematics | 9 |
| Math 120, Elem. Topics in Math. | 5 |
| Math 121, Foundations of Elem. Math. | 5 |
| The two courses above are recommended; however, any mathematics courses numbered above 120 and equaling nine quarter hours would be acceptable. | |
| Social Sciences | 27 |
| Soc 101, Intro. to Sociology | 5 |
| Econ 101, Prin. of Econ. | |
| OR EcEd 346, Econ. in Curriculum | 3-5 |
| Geog 121, Elements of Cultural Geog. | 4 |
| U.S. history or political science | 4 |
| HECF 360, Human Sexuality | 3 |
| Soc 201, Social Problems | |
| OR Soc 223, Am. Society | 4 |
| HECF 371, Family Development | 3 |
| Physical Education | 7 |
| HPER 270, Tchng. of Phys. Ed. | 3 |
| HPER 202, Personal & Community Health | |
| OR HPER 227, First Aid | 4 |

Major Requirements

| | |
|---|---|
| HECF 160, Intro. to Child Devel. | |
| OR EdEl 200, Studies of Children | |
| OR Psy 173 Child. & Adol. Psych. | 4 |
| EdEl 321, Children's Lit. | 4 |
| EdEl 310, Tchng. of Reading & Lang. Arts in | |
| Elem. School | 6 |
| EdEl 330, Tchng. of Math. in Elem. School | 4 |
| EdEl 340, Tchng. of Science in Elem. School | 4 |
| EdEl 350, Tchng. of Social Studies in Elem. School .. | 4 |
| HECF 463, Preschool Admin. | 5 |
| Psy 275, Educ. Psych. | |
| OR EdCI 275, Learn. Proc. in Classroom | 5 |
| EdEl 306, Kindergarten Educ. | 6 |

| | |
|--|---|
| Art 360, Art for Elem. Tchrs. | 6 |
| Mus 161 or Mus 262, Music for Classroom Tchrs. ... | 3 |
| HECF 363, Creative Exper. with Preschool | |
| Children or 364 | 4 |
| HECF 361, Prin. of Preschool Guidance | 4 |
| HECF 462, Readings in Child Development &/or | |
| Family Living A,B,C (choose two) | 4 |
| HEFN 232, Infant & Child Nutrition | 3 |
| EdGS 410, Human Relations | 3 |
| EdSp 271, Intro. to Educ. of Exceptional | |
| Children & Youth | 3 |
| EdAV 480, Intro. to Educ. Media | 4 |

Professional Laboratory Experience

| | |
|--|---|
| EdPl 360 OR 361 Field Exper. in Elem. or Second. | |
| Schools or Field Service in Educ. | 2 |

Field experience is a course in which a student spends a minimum of nine days observing and participating in an elementary classroom in a school of his or her choice in September prior to the opening of the University. This should be done the September prior to the start of the junior year in college. Once the University commences there is only one evening meeting to attend. A student must register for this course as for any other course and must also sign up for it in the Field Experience Office, Room 129, McCracken Hall, in May prior to the September when it is to be done. Anyone interested in EdPl 361, Field Service, rather than field experience should contact the Field Experience Office for information.

| | |
|--|-------|
| EdPl 461 and 462, Stu. Tchng. in Elem. School .. | 7 + 6 |
| EdPl 465, Stu. Tchng. Seminar | 3 |

These three courses are taken concurrently in one quarter and constitute the student teaching requirement. A person should make an application for student teaching by December 1 of the year prior to the year in which student teaching is to be done. For example, anyone doing student teaching during any of the three quarters of the school year 1980-81, should apply by December 1, 1979. For further information contact the Field Experience Office.

| | |
|--|---|
| HECF 464, Nursery School Practicum | 6 |
|--|---|

Students must sign up with the director of the Nursery Child Care Center at least one year in advance.

Procedures for Transferring from One Type of Certificate to Another

1. Elementary to High School

The holder of a standard elementary teacher's certificate may obtain a high school teacher's certificate by completing the teaching field requirements and a methods course for teaching at the secondary level.

2. High School or Special to Elementary (Re-training)

The holder of a provisional, professional, or permanent high school or special teacher's certificate may obtain a certificate valid for elementary teaching upon submitted evidence of the satisfactory completion

of the following coursework in elementary education:

- a. Purposes and practices of the elementary school — EdEI 460
- b. Methods of teaching reading — EdEI 310
- c. Methods of teaching arithmetic — EdEI 330
- d. Child psychology — EdEI 200

The retraining certificate may be converted into a provisional elementary certificate with the completion of additional hours from specific courses in English, music, health, and physical education. A course in American history or political science and biology or physical science must complete deficient areas before application is made for the standard elementary certificate. The retraining certificate is valid for four years and may not be renewed.

SECONDARY EDUCATION PROGRAMS

Professional Requirements (20-23 hours)

| | |
|--|-----|
| EdCI 275, Learning Proc. in Classroom | |
| OR Psy 275, Educ. Psych. | 5 |
| EdSe 250, Analys. of Tchng. | 4 |
| EdSe 351, Instruct. Proc. & Curriculum | 5 |
| Methods in major field | 3-6 |
| EdSe 480, School & Society (after student teaching) .. | 3 |

Professional Laboratory Experience

| | |
|---|---|
| EdPI 360 or 361, Field Exper. in Elem. or Second. Schools or Field Service in Educ. | 2 |
|---|---|

Field experience is a course in which a student spends a minimum of nine days observing and participating in a secondary classroom in a school of his or her choice in September prior to the opening of the University. This should be done the September prior to the start of the junior year in college. Once the University commences there is only one evening meeting to attend. A student must register for this course as for any other course and must also sign up for it in the Field Experience Office, Room 129, McCracken Hall, in May prior to the September when it is to be done. Anyone interested in EdPI 361, Field Service, rather than field experience should contact the Field Experience Office for information.

| | |
|---|----|
| EdPI 463 and 464, Stu. Tchng. in Second. Schools (EdPI 461 may be substituted for EdPI 464 where appropriate) | 13 |
| EdPI 465, Stu. Tchng. Seminar | 3 |

These three courses are taken concurrently in one quarter and constitute the student teaching requirement. A person should make an application for student teaching by December 1 of the year prior to the year in which student teaching is to be done. For example, anyone doing student teaching during any of the three quarters of the school year 1980-81, should apply by December 1, 1979. For further information contact the Field Experience Office.

General Education

All students in secondary academic or special fields in teacher education (except home economics education) must complete 45 hours of general education courses in order to be eligible for graduation with a BSED or teacher certification or both.

The breakdown of these general education requirements is as follows:

1. Science and Mathematics
Each student is required to complete at least one course in science and one course in mathematics. Appropriate science courses are: astronomy, chemistry, physics, botany, zoology, physical science, geology, and Psy 226, 312 and 314. Any course in the mathematics department except 011, 032, 109A, 109B, 320, and 420 is acceptable for the mathematics requirement. Also, Psy 121 counts toward the mathematics requirement. Computer science courses do not satisfy this requirement.
2. Comparative Arts and/or Philosophy
Each student is required to complete at least two courses in this area. The two courses need not be in one field. Possibilities include any courses in the Philosophy Department; Comparative Arts Department; Hum 107, 108, 109, 307, 308, and 309; theater history courses; Art History Department; Art Department except for Art 360, 460, 461, 462; School of Music courses except for music education courses, music therapy courses, and the one- or two-hour participation courses.
3. Social Studies
Each student is required to complete at least two courses in social science. The two courses need not be in the same field. Psy 101, which is required, is included as one of the social science courses. Other possibilities include any course in anthropology, economics, economic education, history, political science, sociology, social work, geography, and psychology, EXCEPT Psy 275, 121, 226, 312, and 314.
4. English and/or Foreign Language
Each student is required to complete at least two courses in English and/or foreign language. Freshman and junior English composition courses taken to satisfy the University English composition requirement (See English Composition Requirement in the Graduation Requirements section of this catalog) may be used toward completion of these hours. The two courses need not be in the same field. InCo 103 is a specific requirement in this area and is counted as one of the two courses needed. InCo 103 may be waived on the basis of one semester of speech in high school. If waived, the course does not count as hours toward graduation nor as a course in this area. Possibilities in this area include all English courses EXCEPT Eng 450A and 450B; any linguistics courses; any foreign language courses EXCEPT ML 410 and ML 445; Hum 107, 108, 109, 307, 308, and 309 (these humanities courses may NOT count toward the general education requirements in both the English and/or foreign language field and the comparative arts and/or philosophy field.)

If two courses in each of the above fields do not add up to a total of 45 hours, then a student must elect sufficient hours in one or a combination of the above areas to bring the total hours in general education to 45 hours.

If a student's major OR second teaching field is the same as one of the above areas, then ten hours of the major or minor may be counted toward the corresponding general education field as well as the major or minor. For example: If the student's major is English, ten hours of English may count toward the 45-hour total of general education and toward Field 4, above, which is English and/or Foreign Language.

No more than six hours of HPER activity courses may be counted toward the degree except for majors or minors in physical education and recreation, and none may count in general education.

Major Requirements

Art Education

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach art, the following program must be completed. The certificate for which this program prepares a person is a four-year provisional special field certificate in art which allows the holder to teach in grades kindergarten through 12, inclusive.

Majors are required to submit portfolios of studio work in May of the sophomore year.

Methods Courses:

| | |
|--|---|
| Art 461 Art Exper. in Elem. School | 3 |
| Art 462 Tchng. in the Second. School | 3 |

Major Requirements: 100

- A. Select at least 76 quarter hours of studio courses including at least one course from each of the following three areas:

1. Two-dimensional art

Possibilities include courses in 2-D design, painting, prints, fibers, drawing, photography and graphic design.

2. Three-dimensional art

Possibilities include courses in 3-D design, ceramics, sculpture, fibers, glass, relief prints and silk screen.

3. Graphic communications

Art 151, 251, 254

Note that although a course may be counted in more than one area, a single course may not be used to fulfill more than one requirement. Art education courses (Art 360, 460, 461, 462) do not count towards any of the above areas.

- B. Select 24 quarter hours of art history and/or comparative arts.

Possibilities include any courses in the art history or comparative arts departments (except CA 303, 304, 305 and CA 321, 322, 323.)

Biological Sciences

A student may earn either a BSED in the College of Education or a BA or BS in botany or zoology in the College of Arts and Sciences and meet teacher certification requirements. Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach biology as the major field, the following program must be completed. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach biology in grades seven through 12, inclusive.

Students are strongly urged to complete a second teaching field preferably in another science or in mathematics. Because of tool

courses required in the major, the hours needed to complete a minor in math or the other science fields are approximately: Math — 20-25 hours, chemistry — 20 hours, earth science — 35 hours, general science — 12 hours, physics — 23 hours. Program sheets detailing specific course requirements in these minors are available in the Student Personnel Services Office, McCracken Hall.

Methods Course:

| | |
|--------------------------------|---|
| Bot 368 — Tchng. of Biol. | 3 |
|--------------------------------|---|

Major Requirements: 78-80

| | |
|---|------|
| 1. Tool Courses (32-34) | |
| Chem 141, 142, 301, 302 | 16 |
| Math 163A and B OR 263A and B | 8-10 |
| Phys 201, 202 | 8 |
| 2. Required Courses (18) | |
| Zool 150 OR Bot 110 | 6 |
| Bot 111 | 6 |
| Zool 151 | 6 |
| 3. Select one botany course and one zoology course from each of the following four areas and any additional biology electives if needed to complete 30 quarter hours. | |
| a. Structure of Organisms | |
| Bot 307 — Biol. of Algae & Mosses | 5 |
| Bot 308 — Morph. of Vascular Plants | 6 |
| Bot 312 — Plant Anat. | 5 |
| Zool 301 — Human Anat. | 6 |
| Zool 303 — Compar. Vertebrate Anat. | 6 |
| Zool 408 — Histology | 6 |
| Zool 430 — Invertebrate Zool. | 6 |
| Zool 435 — Gen. Entomology | 6 |
| Zool 441 — Parasitology | 6 |
| b. Regulation and Maintenance of Organisms | |
| Bot 424 — Plant Physiology | 6 |
| Bot 431 — Cytology | 5 |
| Zool 325 — Gen. Genetics | 5 |
| Zool 345 — Human Physiology | 4 |
| Zool 437 — Medical Entomology | 4 |
| Zool 438 — Cell Physiology | 4 |
| Zool 450 — Prin. of Endocrinology | 4 |
| Zool 460 — Animal Physiology | 5 |
| Zool 463 — Cell Chem. | 4 |
| Zool 473 — Ethology | 6 |
| c. Continuity and Variation in Organisms | |
| Bot 248 — Trees & Shrubs | 5 |
| Bot 309 — Ohio Flora | 5 |
| Bot 310 — Biol. of Fungi | 5 |
| Bot 420 — Fresh-water Algae | 5 |
| Zool 371 — Ornithology | 4 |
| Zool 429 — Marine Biol. | 4 |
| Zool 431 — Limnology | 4 |
| Zool 432 — Field Hydrobiology | 3 |
| Zool 439 — Field Entomology | 5 |
| Zool 442 — Helminthology | 6 |
| Zool 472 — Herpetology | 5 |
| Zool 474 — Mammalogy | 4 |
| Zool 479 — Evolution | 4 |
| d. Diversity and Interrelationships | |
| Bot 247 — Vegetation of North Am. | 4 |
| Bot 311 — Biol. & Human Affairs | 3 |
| Bot 425 — Ecology | 5 |
| Zool 390H — Biol. & Future of Man | 5 |
| Zool 475 — Animal Ecology | 3 |
| Zool 476 — Ecology Lab | 2 |
| Zool 477 — Population Biol. | 4 |
| Zool 478 — Population Biol. Lab. | 3 |

Bookkeeping — Basic Business

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach bookkeeping-basic business, the following program must be completed. The cer-

tificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach bookkeeping-basic business and sales-communication in grades seven through 12, inclusive.

Methods Course

EdSe 470 Tchng. of Bookkeeping-Basic Bus. 3

Major Requirements: 70

| | |
|--|-----|
| Acct 101 and 102 — Managerial | 8 |
| Acct 303 — Acct Prin. and Proc. OR Acct 311 — Ind. Acct. | 4 |
| BusL 255, 356 — Law & Society, Law of the Mgt. Proc. | 8 |
| Econ 101 and 102 — Prin. | 8 |
| Geog 130 — Econ. Geog. OR Geog 331 — Geog. of Agric. Activity OR Geog 332 — Geog. of Mfg. | 4 |
| Jour 250 — Adv. Prin. | 5 |
| Mkt 301 — Mkt. Prin. | 4 |
| Mkt 458 — Sales Mgt. OR Mkt 444 — Consumer Behavior | 4 |
| Fin 325 — Managerial Finance | 4 |
| Mgt 300 — Mgt. | 4 |
| Mgt 325 — Comm. Behavior in Mod. Organization .. | 4 |
| CS 252 Intro to Dig Comput. OR QM 200 and 430 — Intro to Bus. Data Proc. and COBOL Programming | 5-8 |
| Elective in business | 8-4 |

Chemistry

A student may earn a BSED in the College of Education or a BA or BS in chemistry in the College of Arts and Sciences and meet teacher certification requirements. Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach chemistry as the major field at least the following program must be completed. (Requirements for a BS in chemistry in the College of Arts and Sciences are more extensive than the following. See Chemistry in the *Courses of Instruction* section of the catalog.) The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach chemistry in grades seven through 12, inclusive.

Students are strongly urged to complete a second teaching field preferably in another science or in mathematics. The hours required to complete a minor in math or the other science fields are approximately: Math — 20-25 hours, biology — 32 hours, earth science — 35 hours, general science — 18 hours, physics — 21-23 hours. Program sheets detailing specific course requirements in these minors are available in the Student Personnel Services Office, McCracken Hall.

Methods Course:

EdSe 478 — Teaching of Physical Science 3

Major Requirements: 65-77

| | |
|--|------|
| 1. Tool Courses (21-25) Math 163A and B OR 263A and B | 8-10 |
|--|------|

| | |
|---|------|
| Phys 201 and 202 OR 251 and 252 | 8-10 |
| Bot 110 OR Zool 150 Intro. | 6 |
| 2. Chemistry Courses (44-46) Chem 141, 142, 143 | 15 |
| Chem 301, 302, 303, 304* — Organic OR 305, 306, 307, 308, 309 — Organic | 9-13 |
| Chem 325* — Instrumental Methods of Analy OR 484 and 485 — Electrochem & Spectrochem Analys | 4-10 |
| Chem 351* — Phys. OR 453, 454, 455 — Phys. | 5-9 |
| Chem 476 — Mod. Inorganic | 4 |
| Chem 489 — Basic Biochem | 4 |

*Student must choose one of the long sequences in organic, instrumental, or physical chemistry. Choosing the long sequence in physical chemistry will require more math and more physics than listed as tools for this major.

Communications Comprehensive — Option One (Speech Emphasis)

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach in communication with an emphasis in speech, the following program must be completed. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach English, speech, journalism, reading and an integrated communications course in grades seven through 12, inclusive.

Methods Courses:

| | |
|---------------------------------------|---|
| InCo 421 Tchng. Speech Comm. I | 3 |
| InCo 422 Tchng. Speech Comm. II | 2 |

Major Requirements: 92

| | |
|--|-----|
| 1. Speech (41 hrs) a. Fundamental Processes *InCo 101 Speech Fundamentals | 3 |
| *InCo 445 Comm in Organizations | 4 |
| And five quarter hours of elec selected from: InCo 107 Intro. to Verbal Lang. Behavior | 2 |
| InCo 335 Bases of Speech Comm. | 3 |
| InCo 104 Listening | 2 |
| InCo 433 Applic. of Gen. Semantics | 4 |
| InCo 448 Cross-cultural Comm. | 4 |
| b. Theory and History of Speech *InCo 334 Intro. to Comm. Proc. | 4 |
| *InCo 353A, or B, or C — Hist & Crit. of Oratory | 3 |
| And eight quarter hours of elec selected from: InCo 217 Forensic Wkshp | 1-6 |
| InCo 425 Dir. Forensic Program | 3 |
| InCo 435 Theories of Argument | 3 |
| InCo 442 Comm. & Persuasion | 4 |
| InCo 446 Comm. & Campaign | 4 |
| InCo 452 Psych. of Speech | 4 |
| InCo 450 Intro. to Rhetorical Theory | 3 |
| InCo 458 Responsibilities & Freedom of Speech .. | 4 |
| InCo 460 Contemp. Pub. Address | 4 |
| InCo 481 Measurement of Speech Comm. | 4 |
| R-TV 270 Brdcstng. & Pub. | 4 |
| R-TV 441 Instruct. Methods in Educ. TV | 4 |
| ThAr 210 Acting I | 4 |
| ThAr 270 or 271 or 272 Theater Hist. | 3 |
| ThAr 320 Dir. I | 4 |
| c. Forms of Speech *InCo 105 or R-TV 105 or Jour 105 Intro. to Comm. | 4 |
| *InCo 220 Oral Interp. of Lit. | 3 |
| And 7 hours selected from at least 3 of the 6 areas: Platform Speaking InCo 103 Pub. Spkng. | 4 |
| InCo 412 Adv. Pub. Spkng. | 4 |

| | |
|---|-------|
| <i>Discussion</i> | |
| InCo 205 Group Discussion | 4 |
| InCo 210 Parliamentary Proced. | 2 |
| InCo 404 Interviewing | 3 |
| InCo 405 Conference Leadership | 4 |
| <i>Debate</i> | |
| InCo 215 Argumentation & Debate | 4 |
| <i>Acting</i> | |
| ThAr 210, 211, 212 Acting I, II, III | 4,4,4 |
| ThAr 441 Creative Dramatics | 3 |
| <i>Playdirecting</i> | |
| ThAr 465 Practi. in Dir. | 2-4 |
| <i>Technical Theater</i> | |
| ThAr 467 Practi. in Mgt. | 2-4 |
| ThAr 135, 235, 335, 435 Practi. in Prod. Design | 2-4 |
| 2. English (27 hours) | |
| Eng 200 Intro. to Lit. | 4 |
| Eng 307 Struc. of Am. Engl. | 5 |
| Eng 308 Adv. Comp. | 5 |
| Select one of the following (4-5 hours): | |
| Eng 301 Shakespeare: Histories | |
| Eng 302 Shakespeare: Comedies | |
| Eng 303 Shakespeare: Tragedies | |
| Eng 312 Medieval & Renaissance Engl. Lit. | |
| Eng 313 Restoration & Neo-Classical Engl. Lit. | |
| Eng 314 Romantic & Victorian Lit. | |
| Eng 360 Major Authors: Engl. | |
| Select one of the following (4-5 hours): | |
| Eng 317A,B,C Am. Lit. by Black Authors | |
| Eng 321 Am. Lit. to Civil War | |
| Eng 322 Am. Lit. Since Civil War | |
| Eng 361 Major Authors: Am. | |
| Select one of the following (3-5 hours) | |
| Hum 307, 308, 309 Great Books | |
| Eng 204 Internat. Lit.: Classical | |
| Eng 205 Internat. Lit.: Romantic | |
| Eng 206 Internat. Lit.: Modern | |
| Eng 306A,B,C Oriental Lit. | |
| Select sufficient hours of English courses at the 200 level or above to bring total to 27 quarter hours. | |
| 3. Journalism (15-17) | |
| Jour 231 News Rptng. | 4 |
| Jour 333 News Edit. | 4 |
| Jour 484 or 485 | 4 |
| Select one of the following (3-5): | |
| Jour 221 Graphics of Comm. | 5 |
| Jour 331 Rptng. Contemp. Issues | 3 |
| Jour 441 Mag. Feature Wrng. | 4 |
| 4. Reading (9 hours) | |
| EdEl 411 Diagnosis & Treatment of Reading Disabilities | 4 |
| EdSe 420 Tchng. Reading in Jr. & Sr. H.S. | 5 |

Communications Comprehensive — Option Two (English Emphasis)

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach in the field of communications with an emphasis in English the following program must be completed. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach English, speech, journalism, reading and an integrated communications course in grades seven through 12, inclusive.

Methods Courses:

| | |
|------------------------------------|---|
| Eng 450A Tchng. Lang. & Comp. | 3 |
| Eng 450B Tchng. Lit. | 3 |

Major Requirements: 95

| | |
|---|---|
| 1. English (42) | |
| Eng 200 Intro. to Lit. | 4 |
| Eng 312 Medieval & Renaissance Engl. Lit. | 5 |
| Eng 313 Restoration & Neo-Classical Engl. Lit. | 5 |
| Eng 314 Romantic & Victorian Lit. | 5 |
| Eng 307 Struct. of Am. Engl. | 5 |
| Eng 308 Adv. Comp. | 5 |
| Eng 322 Am. Lit. Since Civil War | 5 |
| Select one of the following | 4 |
| Eng 361 Major Authors: Am. | |
| Eng 362 Major Authors: Internat. | |
| Eng 460 Literary Genres | |
| 2. Speech (29 hours) | |
| *InCo 101 Speech Fundamentals | 3 |
| *InCo 445 Comm. in Organizations | 4 |
| Theory & Hist. of Speech | |
| *InCo 334 Intro. to Comm. Proc. | 4 |
| *InCo 353A, or B, or C Hist. & Crit. of Oratory . | 3 |
| Forms of Speech | |
| *InCo 105 or R-TV 105 or | |
| Jour 105 Intro. to Comm. | 4 |
| *InCo 220 Oral Interp. of Lit. | 3 |
| Eight hrs of elec selected from: | |
| InCo 103 Pub. Spkg. | 4 |
| InCo 205 Group Discussion | 4 |
| InCo 215 Argumentation & Debate | 4 |
| 3. Journalism (15-17) | |
| Jour 231 News Rptng. | 4 |
| Jour 333 News Edit. | 4 |
| Jour 484 or 485 | 4 |
| Select one of the following (3-5): | |
| Jour 221 Graphics of Comm. | 5 |
| Jour 331 Rptng. Contemp. Issues | 3 |
| Jour 441 Mag. Feature Wrng. | 4 |
| 4. Reading (9 hours) | |
| EdEl 411 Diagnosis & Treatment of Reading Disabilities | 4 |
| EdSe 420 Tchng. Reading in Jr. & Sr. H.S. | 5 |

*Required

Comprehensive Business Education

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach business education, the following program must be completed. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach business education in grades seven through 12, inclusive.

Methods Course:

| | |
|--|---|
| EdSe 470 Tchng. of Bookkeeping-Basic Bus. | 3 |
|--|---|

Major Requirements: 92-95

| | |
|---|-----|
| 1. Typewriting and Office Procedures (42-46) | |
| GST 121, 122, 123 Typewriting Courses* | 8 |
| GST 111, 112, 113, 241A, 242A Shorthand Courses* | 15 |
| GST 231 Office Machines* | 3 |
| GST 171G Office Methods & Proced.* | 3 |
| GST 262 Report & Letter Wrng.* | 4 |
| CS 252 Intro. to Dig. Comput. Programming for Bus. OR | |
| QM 200 and 430 Quant Methods | 5-8 |
| Mgt 325 Comm. Behavior in Mod. Organization .. | 4 |
| 2. Business and Economics (40 hours) | |
| Acct 101 Managerial Acct. | 4 |
| Acct 102 Managerial Acct. | 4 |
| Acct 303 Acct. Prin. & Proced. OR | |
| Acct 311 Ind. Acct. | 4 |
| BusL 255 Law & Society | 4 |
| BusL 356 Law of Mgt. Proc. | 4 |
| Econ 101 Prin. | 4 |

| | |
|--|---|
| Econ 102 Prin. | 4 |
| Mkt 301 Mkt. Prin. | 4 |
| Mgt 300 Mgt. | 4 |
| Fin 325 Managerial Finance | 4 |
| 3. Electives in Business and Related Areas (10 hours) | |
| Select 10 quarter hours of electives from the following: | |
| Jour 250 Advert. Prin. | 5 |
| Mkt 444 Consumer Behavior | 4 |
| Mkt 458 Sales Mgt. | 4 |
| Geog 130, or 331, or 332 | 4 |
| Math 163A Intro. to Calculus | 4 |
| Math 163B Intro. to Calculus | 4 |
| Accounting courses | |
| Economics courses | |

*Ohio University does not offer courses in these areas except on the Chillicothe and Lancaster campuses. Students following this major must take these courses at the Chillicothe and Lancaster campuses or at another institution. Courses could be taken at a four-year accredited institution or at certain technical institutions. Any courses taken to fulfill these requirements should be approved by the Student Personnel Office in the College of Education to insure applicability towards certification.

Earth Science

A student may earn a BSED in the College of Education or a BA or BS in geology or geography in the College of Arts and Sciences and meet teacher certification requirements. Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach earth science as a major field, the following program must be completed. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach earth science in grades seven through 12, inclusive.

Students are strongly urged to complete a second teaching field, preferably in another science or in mathematics. The hours required to complete a minor in math or the other science fields are approximately: math — 30 hours, biology — 22 hours, chemistry — 26 hours, general science — none, physics — 23 hours. Program sheets detailing specific course requirements in these minors are available in the Student Personnel Services Office, McCracken Hall.

Methods Course:

| | |
|--|---|
| EdSe 472 Tchng. of Earth Science | 3 |
|--|---|

Major Requirements: 81

| | |
|---|----|
| 1. Tool Courses (30) | |
| Chem 121, 122, 123 | 12 |
| Phys 201, 202 | 8 |
| Bot 110 OR Zool 150 Intro. | 6 |
| Bot 111 OR Zool 151 Intro. | 6 |
| 2. Earth Science Courses (51) | |
| Geog 101 Phys. Geog. | 5 |
| Geog 201 Environment & Man | 4 |
| Geog 311 Elements of Meteorology | 5 |
| Geog 312 Climate | 5 |
| PSci 100B Universe | 3 |
| OR | |
| Phys 211 Universe | 3 |
| Astr 300 Solar System | 3 |
| Geol 101 Earth Materials & Structure | 4 |
| Geol 211 Intro. to Oceanography | 3 |
| Geol 310 Rocks & Minerals | 5 |
| Geol 303 Hist. of Earth & Life | 5 |
| Geol 330 Prin. of Geomorphology | 5 |
| Geol 360 Struct. Geol. | 4 |

Educational Media Programs

The Educational Media Academic Area provides two undergraduate majors, and two undergraduate minors. One of the majors is designed to prepare Media Specialists to work in the public schools. Upon completion of this program, students become eligible for Teacher Certification as a Media Specialist, grades K-12. The other major is designed to prepare media personnel to work in business/industry, the health sciences, and higher education non-teaching capacity. Both minors are designed to prepare Media Specialists to work in the public schools, one in grades K-8, the other in grades 7-12. Upon completion of either minor, the student becomes eligible for Teacher Certification as a Media Specialist. Information regarding each program of study is available from Student Personnel Services, McCracken Hall.

English Comprehensive

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach English, the following program must be completed. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach English in grades seven through 12, inclusive.

Methods Courses:

| | |
|------------------------------------|---|
| Eng 450A Tchng. Lang. & Comp. | 3 |
| Eng 450B Tchng. Lit. | 3 |

Major Requirements: 63-67

| | |
|---|------|
| Eng 200 Intro. to Lit. | 4 |
| Select one of the following | 5 |
| Eng 301 Shakespeare: Histories | |
| Eng 302 Shakespeare: Comedies | |
| Eng 303 Shakespeare: Tragedies | |
| Select two of the following | 8-10 |
| Eng 307 Struct. of Am. Engl. | |
| Eng 350 Tradit. Grammar, Mechanics, & Usage | |
| Eng 351 Hist. of Engl. Lang. | |
| Eng 352 Devel. of Am. Engl. | |
| Eng 308 Adv. Comp. | 5 |
| Eng 312 Medieval & Renaissance Engl. Lit. | 5 |
| Eng 313 Restoration & Neo-Classical Engl. Lit. | 5 |
| Eng 314 Romantic & Victorian Lit. | 5 |
| Eng 322 Am. Lit. Since Civil War | 5 |
| Select one of the following | 5 |
| Eng 321 Am. Lit. to Civil War | |
| Eng 317A,B, or C Am. Lit. by Black Authors | |
| Eng 331 20th Cent. Brit. & Am. Lit. | |
| Select one of the following | 4 |
| Eng 361 Major Authors: Am. | |
| Eng 362 Major Authors: Internat. | |
| Eng 460 Lit. Genres | 4 |
| Select one of the following | 3-5 |
| Hum 307, 308, 309 | |
| Eng 204 Internat. Lit.: Classical | |
| Eng 205 Internat. Lit.: Romantic | |
| Eng 206 Internat. Lit.: Modern | |
| Eng 306A,B,C Oriental Lit. | |
| EDSE 420 Tchng. Reading in Jr. & Sr. H.S. | 5 |

Family Life Education

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University

to teach family life education, the following program must be completed. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach an integrated family-life education course in grades seven through 12, inclusive.

Methods Course:

HEED 340 Tchng. of Home Econ. 4

Major Requirements: 90

Psychology: 9

HECF 160 Intro. to Child Devel. 4
Psy 336 Social Psych. 5

Biology: 7

Zool 345 Human Physiology 4
HPER 204C Drug, Alcohol & Tobacco Educ. 3

Health: 20

HEFN 128 Intro. to Nutrition 3
HPER 250C Recreation 3
HPER 370 Community Health Programs 4
HPER 380 Safety Educ. 4
HPEC 227 First Aid 3
HPEC 202 Personal & Community Health 4

Sociology: 4

Select one of the following:
Soc 220 Intro. to Family Sociology 4
Soc 201 Social Problems 4

Marriage and the Family: 19

HECF 270 Family Living 3
HECF 371 Family Devel. 3
HECF 471 Family Life Educ. 4
HECF 462 Readings in Child Devel. &/or
Family Living 6

HECF 360 Human Sexuality 3

Household Management: 12

Select 12 hrs from the following:
HEFN 222 Food Science & Prin. 4
HECE 395 Home Mgt. 3
HEID 180 Furnishing Today's Home 3
HEID 384 Family Housing 3
HETC 317 Textiles & Dress in
Modern Living 3

Consumer Economics: 7

HECE 390 Family Consumer Econ. 3
EcEd 447 Econ. Anlys. 4

Select 12 qtr hours from any one or
combination of the above fields 12

General Speech — Option One (InCo Emphasis)

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach speech with an interpersonal communication emphasis, the following program must be completed. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach speech in grades seven through 12, inclusive.

Methods Courses:

InCo 421 Tchng. Speech Comm. I 3
InCo 422 Tchng. Speech Comm. II 2

Major Requirements: 60

1. Fundamental Processes (13 hours)

*InCo 101 Speech Fundamentals 3
*InCo 445 Comm. in Organizations 4
And 6 qtr hrs of elec selected from:
InCo 104 Listening 2
InCo 107 Intro. to Verbal Lang. Behavior 2

InCo 335 Bases of Speech Comm. 3
InCo 433 Applic. of Gen. Semantics 4
InCo 448 Cross-cultural Comm. 4

2. Theory and History of Speech (24 hours)

*InCo 334 Intro. to Comm. Proc. 4
*InCo 353A, B or C Hist. & Crit. of Oratory 3
And 17 qtr hrs of elect from:
InCo 217 Forensic Wkshp. 1-6
InCo 425 Dir. Forensics Program 3
InCo 435 Theories of Argument 3
InCo 442 Comm. & Persuasion 4
InCo 446 Comm. & Campaign 4
InCo 450 Intro. to Canonical Rhetoric 3
InCo 452 Psych. of Speech 4
InCo 458 Responsibilities & Freedom of Speech .. 4
InCo 460 Contemp. Pub. Address 4
InCo 481 Measurement of Speech Comm. 4
R-TV 270 Brdcsng. & Pub. 4
R-TV 441 Instruct. Methods in Educ. TV 4
ThAr 210 Prin. of Acting 4
ThAr 270 or 271 or 272 Theater Hist. 3
ThAr 320 Dir. I 4

3. Forms of Speech (23 hours)

*InCo, R-TV, Jour 105 Intro. to Com. 4
*InCo 220 Oral Interp. of Lit. 3
And 16 qtr hrs of elec from 3 of the 6 areas:

Platform Speaking

InCo 103 Pub. Spkng. 4
InCo 412 Adv. Pub. Spkng. 4

Discussion

InCo 205 Group Discussion 4
InCo 210 Parliamentary Proc. 2
InCo 404 Interviewing 3
InCo 405 Conference Leadership 4

Debate

InCo 215 Argumentation & Debate 4

Acting

ThAr 210, 211, 212 Acting I, II, III 4,4,4
ThAr 441 Creative Dramatics 3

Playdirecting

ThAr 465 Practicum in Dir. 2-4

Technical Theater

ThAr 467 Practicum in Mgt. 2-4
ThAr 135, 235, 335, 435 Practicum in
Prod. Design 2-4

*Required

General Speech — Option Two (Theater Emphasis)

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach speech with a theater emphasis, the following program must be completed. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach speech in grades seven through 12, inclusive.

Methods Courses:

InCo 421 Tchng. Speech Comm. I 3
InCo 422 Tchng. Speech Comm. II 2

Major Requirements: 92

1. Fundamental Process (11)

InCo 101 Fundamentals of Speech 3
InCo 433 Applic. of Gen. Semantics 4
ThAr 110 Intro. to Performance 4

2. Theory and History (32)

InCo, R-TV, Jour 105 Intro to Comm. 3
InCo 334 Intro. to Comm. Proc. 4
Select one of the following 4
R-TV 270 Brdcsng. & Pub. 4
R-TV 441 Instruct. Methods in Educ. TV 4
ThAr 270 Theater Hist. I 3

| | |
|--|---|
| ThAr 271 Theater Hist. II | 3 |
| ThAr 272 Theater Hist. III | 3 |
| ThAr 170 Theater Exper. | 4 |
| ThAr 171 Intro. to Play Analys.: Basis for Prod. . | 4 |
| ThAr 320 Dir. I | 4 |
| 3. Forms of Speech (49) | |
| InCo 220 Oral Interp. | 3 |
| InCo 103 Pub. Spkng. | 4 |
| InCo 215 Argumentation & Debate | 4 |
| ThAr 135 Practi. in Prod. Design | 1 |
| ThAr 130 Intro. to Stagecraft | 3 |
| ThAr 131 Intro. to Lighting | 3 |
| ThAr 132 Intro. to Costuming | 3 |
| ThAr 210 Acting I | 4 |
| ThAr 211 Acting II | 4 |
| Select one of the following | 3 |
| ThAr 230 Stagecraft: Scenery | |
| ThAr 231 Stagecraft: Lighting | |
| ThAr 232 Stagecraft: Costuming | |
| ThAr 237 Makeup | 1 |
| ThAr 460 Dir. II | 4 |
| Select 12 hours from the following ThAr practicums | |
| and at least two of the following areas must be covered: | |
| ThAr 215, 315, 415 Acting | |
| ThAr 135, 235, 335, 435 Prod. Design | |
| ThAr 105, 205, 305, 405 Mgt | |
| ThAr 465 Dir. | |
| ThAr 467 Stage Mgt. | |

Health Education

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach health the following program must be completed. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach health in grades seven through 12, inclusive.

Methods Course:

| | |
|---------------------------------|---|
| HPER 369 Tchng. of Health | 5 |
|---------------------------------|---|

Major Requirements:

| | |
|--|---|
| Zool 301 Human Anat. | 6 |
| Zool 345 Human Physiology | 4 |
| HEFN 128 Intro. to Nutrition | 4 |
| HECF 360 Human Sexuality or Zool 103 | 3 |
| HECF 471 Family Living Educ. | 4 |
| OR | |
| HECF 371 Family Living | 3 |
| Soc 201 Social Problems or Soc 223 or EDGS 410 ... | 4 |
| Soc 101 Intro. to Sociology | 5 |
| HPER 202 Personal & Community Health | 4 |
| HPER 227 First Aid | 3 |
| HPER 370 Community Health | 4 |
| HPER 380 Safety Education | 4 |
| HPER 333 Theory of Adapted | 3 |
| HPER 204 Drug, Alcohol & Tobacco Educ. | 3 |
| HPER 409 Test & Measurements | 4 |
| HPER 495 School Health Problems (Org. and | |
| Ad. in H. ED) | 5 |

History-Modular Social Studies Programs

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach history and one of the other social science areas the following program must be completed. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach history and another social

studies field in which 30 hours have been completed, in grades seven through 12, inclusive.

Methods Course:

| | |
|---|---|
| EdSe 479 Tchng. Social Studies in Jr. & Sr. H.S. | 3 |
|---|---|

Major Requirements: 78

- A. History (48 hours)
 - Hist 101, 102, 103 Western Civ.12
 - Hist 211, 212, 213 U.S. Hist.12
- Select two courses for a minimum of six hours from each of the following fields:*
- European History
- U.S. History
- Other (African, Ancient, Asian, Latin American, Middle East)
- 8 hrs of the above advanced history courses must be at the 300 level or above.

*If necessary, select sufficient electives in history to bring total to 48 hrs.

- B. Select one of the following fields and complete at least 30 qtr hrs in that field:

1. Political Science: 30
 - a. PolS 101 and 102 OR 103
 - b. Choose one course from each of the following:
 1. PolS 230, 331, 333, 434A or B, 335, 341, 431, 432, 438, 434, 435, 436, 441, 445, 446, 447A or B, 448
 2. PolS 401, 402, 409, 413
 3. PolS 304, 306
 4. PolS 320, 323
 5. PolS 250, 351, 354, 427, 452
 6. Choose one of the following:
 - PolS 405, 410, 415, 416, 417, 418, 419, 481, 485
 - c. Choose enough electives in government to bring the total number of hrs earned in that field to 30.
2. Economics: 30
 - a. Econ 101 and 102 (or 301 and 302)
 - b. Econ 303 and 304
 - c. Select one of the following:
 - Econ 370, 371, 372
 - d. Econ 260
 - e. Econ 340
 - f. Econ 352
3. Social Psychology: 30
 - a. Required courses:
 - Psy 304, 336, 333, 121, 226
 - b. Select five (5) hrs from the following:
 - Psy 310, 241, 315, 376 or 490 Seminars in developmental or social psychology.
4. Geography: 30
 - a. Required courses:
 - Geog 101, 121, 130, 201, 260.
 - b. Select two (2) electives in regional geography so as to include one course in the western region (Geog 140, 142, 240, 241, 242, 340, 343, 355 and 356) and one in the nonwestern region (Geog 141, 345, 351 and 352).
 - c. Select two (2) elective courses in upper level systematic geography (Geog 301, 311, 312, 321, 325, 327, 330, 331, 332, 420, 422, 429 and 430).
5. Sociology and Anthropology: 30
 - a. Soc 101 or 302
 - b. Anth 270 or 370
 - c. Soc 201
 - d. Select one of the following:
 - Soc 211, 315, 329, 331, 428, 430, 432
 - e. Select one of the following:
 - Soc 361, 362, 363, 364, 424
 - f. Select one of the following:
 - Soc 220, 421, 422
 - g. Electives in sociology or anthropology to bring total to 30 hrs.

Home Economics

Regardless of the college of the University from which a student graduates, if he or she

wishes to be certified through Ohio University to teach vocational home economics or home economics education, the following program must be completed. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach vocational home economics, or home economics education in grades seven through 12, inclusive.

Methods Course:

| | |
|--------------------------------|---|
| HECE 340 Tchng. Home Econ..... | 4 |
|--------------------------------|---|

General Education Requirements:

| | |
|--|-------|
| InCo 103 Pub. Spkng..... | 4 |
| English or Language | 13-15 |
| Psy 101 Gen. Psych..... | 5 |
| Soc 101 or 301 Intro. to Sociology..... | 5 |
| Econ 101 or 301 Prin. of Econ..... | 4 |
| Chem 121, 122 and 123 | 12 |
| OR | |
| Bot 101, 102 and Zool 103 | 14 |
| OR | |
| Zool 101, 103 and 203 | 15 |
| Math or Psy 121 | 2-5 |
| Micr 211 and 212 Environmental Microbiology..... | 5 |
| Art 101 or 102 Studio Foundations | 4 |
| Comparative Art, Religion or Philosophy | 4-5 |

Home Economics Basic Requirements:

| | |
|---------------------------------------|---|
| HEG 101 Prof. Awareness | 2 |
| HEFN 128 Intro. Nutrition | 4 |
| HEID 180 Furnishing Today's Home..... | 3 |
| HECF 371 Family Devel. | 3 |
| HECE 395 Home Mgt..... | 3 |

Specialized Requirements:

| | |
|---|-----|
| HEFN 120 Meal Mgt. | 3 |
| HEFN 222 Food Science Prin. | 4 |
| HETC 113 Design Analysis: Theory & Prin. | 5 |
| HETC 315 Elem. Textiles | 4 |
| HETC 317 Textiles & Dress & Environment | 3 |
| HECF 160 Intro. to Child Devel. | 4 |
| HECF 361 Preschool Guidance | 4 |
| HECE 390 Family Consumer Econ. | 3 |
| HECE 396 Home Mgt. Lab..... | 4 |
| HECE 391 Equipment | 4 |
| HECE 299 Seminar | 2-5 |
| HECE 399 Seminar | 2-5 |
| EdPl 465 Seminar..... | 3 |
| ECED 447 Econ. Analys. & Its Applic. | 4 |
| to Curriculum | 4 |
| Approved Electives from 300-400 level courses in: | |
| Human Nutrition and Food Science | 3-4 |
| Human Environment and Design | 6-8 |
| Human Development and Family Ecology..... | 3-4 |

Students may complete requirements for job training certification by taking 45 hours of coursework in a specialized area of home economics. Permission must be granted by the home economics education advisor. The three options are *Job Training – Child Care Services*; *Job Training – Food Service*; and *Job Training – Community and Home Service*.

Industrial Arts Comprehensive

A student who desires to be graduated from the College of Engineering and Technology with a major in industrial technology and wishes to obtain through Ohio University a four-year provisional high school certificate valid for teaching industrial arts in grades seven

through 12, inclusive, follows the major as specified for the BSIT. Those who desire the BSIT degree with the teaching option should contact the chairman of the Department of Industrial Technology for further information.

All other students who desire to teach industrial arts must be enrolled in the College of Education and must complete the following program. The certificate for which this program prepares a student is a four-year provisional high school certificate which qualifies the holder to teach industrial arts in grades seven through 12, inclusive.

Methods Course:

| | |
|--------------------------------|---|
| IndT 470 Intern Teaching | 3 |
|--------------------------------|---|

Major Requirements: 100

| | |
|---|----|
| IndT 115 Metal Fabrication..... | 4 |
| IndT 216 Metal Machining | 4 |
| IndT 220 Small Engines | 3 |
| IndT 244 Graphic Proc. | 3 |
| IndT 250 Wood Industry | 3 |
| IndT 270 Rpt. Wrng. | 3 |
| IndT 301 Ceramic Prod..... | 3 |
| IndT 308 Plastics | 3 |
| IndT 310 Metal Casting | 3 |
| IndT 332 Electronics | 5 |
| IndT 333 Semi-Conductors | 3 |
| IndT 341 Proc. Photo | 3 |
| IndT 347 Plastics Proc. | 3 |
| IndT 350 Wood Forming | 5 |
| IndT 361 Prod. Design | 2 |
| IndT 390 Materials | 3 |
| IndT 421 Power Transmission | 3 |
| IndT 471 Admin. of Industrial Educ. | 3 |
| IndT 472 Contemporary Programs..... | 3 |
| EG 101 Engr. Drawing | 3 |
| EG 102 Engr. Drawing | 3 |
| Technical electives | 7 |
| Chemistry, physics and mathematics (Minimum of one course in each field)..... | 25 |

Latin

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach Latin, the following program must be completed. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach Latin in grades seven through 12, inclusive.

Each person selecting Latin as a major teaching field must have a minor or second teaching field. Requirements for all of the second teaching fields are available in the Student Personnel Services Office, McCracken Hall.

Methods Course:

| | |
|------------------------------------|---|
| Lat 364 Tchng. of H.S. Latin | 3 |
|------------------------------------|---|

Major Requirements: 39-51

| | |
|---|----|
| Lat 101, 102, 103 Begin. Latin | 12 |
| Students entering with two years of high school Latin are excused from this sequence. | |
| Students entering with two (2) years of high school Latin must complete at least 39 hours of Latin numbered above 103, including: | |
| CLNG 401 Life of Romans | 3 |
| Lat 433 Advanced Latin Syntax | 3 |

One other 400-level Latin course

Students entering with three or four years of high school Latin will normally register for Lat 351, Latin Prose and Poetry — 3 hours, and then must complete at least 30 hours more of Latin including:

| | |
|----------------------------------|---|
| CLNG 401 Life of Romans | 3 |
| Lat 433 Adv. Latin Syntax | 3 |
| One other 400-level Latin course | |

Mathematics

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach mathematics, the following program must be completed. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach mathematics in grades seven through 12, inclusive.

Methods Course:

| | |
|---|---|
| Math 320 Tchng. of Math in Second. School | 5 |
|---|---|

Major Requirements: 60

- A. Select at least 50 quarter hours of mathematics as follows:
 1. Math 263 ABC
 2. Math 214
 3. Math 230
 4. One of the following courses in computer science:
 - 201, 253, 254
 5. Elect one Math 200 level or above
 6. 15 quarter hours of mathematics at the jr.-sr. level excluding Math 320
- B. An additional 10 quarter hours are required and may be selected from any one or combinations of the following:
 1. Mathematics at the 200 level or above excluding Math 320
 2. Computer science at the 200 level or above
 3. Ast 300, 301, 350
 4. CE 220, 321
 5. Phys 251-252
 6. Phil 320, 420, 421

Modern Languages Comprehensive

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach one of the modern foreign languages, the following program must be completed. The certificate for which this program prepares a person is a four-year provisional high school certificate to teach one of the modern foreign languages (French, German, Russian, Spanish) in grades seven through 12, inclusive.

Students who have completed one year or less of high school work in the language in which they are majoring should start with ML 111 — Elementary Language — 4 hours. Students who have completed two or three years of high school work in the language in which they are majoring should start with ML 211 — Intermediate Language — 4 hours. Students who have completed four or more years of high school work in the language in which they are majoring should start with ML 213 or 241 — Literature and Interpretation — 4 hours. Regardless of the level at which a student starts

the college language, he or she must complete at least 56 quarter hours in that language beyond 113.

Methods Course:

| | |
|--|---|
| ML 445 Tchng. of Mod. Foreign Lang. | 3 |
|--|---|

Major Requirements: 56-69

| | |
|---|----|
| Lang 111, 112, 113 Basic | 12 |
| All students must have 56 hours above Lang 113. | |
| Lang 211, 212 and 213 or 241 | 12 |
| Lang 341, 342, 343 Adv. Conversation & Comp. | 12 |
| Lang 348 or 349 Civ. & Culture | 4 |
| Lang 355 and 356 Lit. Readings | 8 |
| Lang 354 (Span. majors only) | 4 |
| Lang 410 Lang. Lab | 3 |
| Lang 437 Phonetics | 3 |
| Lang 439 or 441 Stylistics | 3 |
| Electives at 400 level or above | 9 |
| Select 3 hours from the following | |
| (not required for Span. majors) | 3 |
| Cultural Anthropology | |
| Cult. and Civ. of Country | |
| History of Country | |
| Linguistics | |
| (Study Abroad Recommended) | |

Music Education With Instrumental Emphasis

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach instrumental music, the following program must be completed. The certificate for which this program prepares a person is a four-year provisional special field certificate which qualifies the holder to teach music in grades kindergarten through 12, inclusive.

Methods Course:

| | |
|--|----|
| Mus 363 Meth. and Mater. Inst. | 3 |
| Mus 261 String Meth. & Materials | 6 |
| Mus 263 Wind & Perc. Methods | 12 |

Major Requirements: 109-115

| | |
|---|------|
| Applied Music (in principal instrument sufficient to pass prof. test—See School of Music Handbook) 22 | |
| Second Instr. — Piano unless audition determines no further study is needed. Then another instrument must be studied instead. A piano proficiency examination or its equivalent is also required. ... | 6-12 |
| Major Performing Groups | |
| (minimum one per quarter) | 11 |
| Mus 90 (to be taken each quarter) | 0 |
| Mus 101, 102, 103 Theory | 12 |
| Mus 201, 202, 203 Harmony | 9 |
| Mus 204 and 205 Dict. & Sght. Sng. | 6 |
| Mus 206 Form and Analys. | 3 |
| Mus 304 Instrumentation | 3 |
| Mus 321, 322, 323 Hist. of Music | 9 |
| Mus 455 and 457 Cond. | 6 |
| Mus 469 Vocal Meth. and Mater. in Jr., Sr. H.S. | 4 |

Music Education With Vocal Emphasis

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach vocal music, the following program must be completed. The certificate for which this program prepares a person is a four-year

provisional special field certificate which qualifies the holder to teach music in grades kindergarten through 12, inclusive.

Methods Courses:

| | |
|--|---|
| Mus 367 Mater. and Trends | 3 |
| Mus 365 Sec. Sch. Vocal Tech. | 3 |
| Mus 364 Second. School Vocal Tech. | 3 |
| Mus 366 Teach. of Mus. in the Elem. Grds. | 3 |
| Mus 468 Gen. Music in Jr. H.S. | 3 |

Major Requirements: 104-110

| | |
|--|------|
| Applied Music | 22 |
| Principal instrument (voice or piano sufficient to pass prof. test — See School of Music Handbook for requirement) | |
| If major is piano then must take Mus 451 | 1 |
| Secondary Instrument (voice or piano sufficient to pass prof. test — See School of Music Handbook for requirement) (A piano proficiency examination is required) | 6-12 |
| Major Performing Groups (minimum one per quarter) | 11 |
| Mus 90 (to be taken each quarter) | 0 |
| Mus 101, 102, 103 Theory | 12 |
| Mus 201, 202, 203 Harmony | 9 |
| Mus 204 and 205 Dict. & Sgnt. Sng. | 6 |
| Mus 206 Form & Analysis | 3 |
| Mus 261 String Methods (2 qtrs, 2 hr ea) | 4 |
| Mus 263 Wind & Perc. (3 qtrs, 2 hr ea) | 6 |
| Mus 304 Instrumentation | 4 |
| Mus 321, 322, 323 Hist. of Music | 9 |
| Mus 455 and 456 Cond. | 6 |

Physics

A student may earn a BSED in the College of Education or a BA or BS in physics in the College of Arts and Sciences and meet teacher certification requirements. Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach physics as the major field, the following program must be completed. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach physics in grades seven through 12, inclusive.

Students are strongly urged to complete a second teaching field preferably in another science or in mathematics. The hours required to complete a minor in math or the other science fields are approximately: math — 10 hrs., biology — 32 hrs., chemistry — 21 hrs., earth science — 35 hrs., general science — 18 hrs. Program sheets detailing specific course requirements in these minors are available in the Student Personnel Services Office, McCracken Hall.

Methods Course:

| | |
|---|---|
| EdSe 478 Tchng. of Physical Science | 3 |
|---|---|

Major Requirements: 77-78

| | |
|---|----|
| 1. Tool Courses (35) | |
| Chem 141, 142, 143 | 15 |
| Math 263A, 263B, 263C, 340 | 20 |
| 2. Physics Courses (42-43) | |
| Phys 201, 202, 203, 315 Intro. to Physics | 16 |
| OR | |
| 251, 252, 253 Gen. Physics ... | 15 |

| | |
|--|---|
| Phys 272, 273 Electronics Lab | 4 |
| Phys 311, 312 Mechanics | 8 |
| Phys 371, 372 Interim. Lab | 4 |
| Phys 451, 452 Quantum Physics | 8 |
| Phys 423 Optics | 4 |
| Other 300- or 400-level physics courses, or up to five hours of astronomy courses, or physical science courses (except 101 and 102) can be substituted upon permission of the Physics Department and The College of Education. | |

Physical Education — Men and Women

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified to teach physical education, the following program must be completed. The certificate for which this program prepares a person is a four-year provisional special field certificate which qualifies the holder to teach physical education in grades kindergarten through 12, inclusive.

Physical Education — Men

A psycho-motor phase complements courses pertaining to the theories and behavioral competencies on teaching physical education at the elementary and secondary levels.

Methods Course:

| | |
|-----------------------|---|
| HPER 280M (Men) | 3 |
|-----------------------|---|

Major Requirements:

| | |
|---|-----|
| HPER 261 Intro. to Phys. Ed. | 1 |
| HPER 267M or 218 or 220 Swimming | 2 |
| HPER 322M Gymnastics | 2 |
| HPER 115C Rhythmics | 2 |
| HPER 290C Sports Officiating | 2 |
| Successfully complete a minimum of 12 of 46 skills classes. | |
| Zool 301 Human Anat. | 6 |
| Zool 345 Human Physiology | 4 |
| HPER 227 First Aid | 3 |
| HPER 234 Field Experience I | 1-3 |
| HPER 252 Kinesiology | 4 |
| HPER 300 Elem. Phys. Ed. I | 3 |
| HPER 301 Elem. Phys. Ed. II | 3 |
| HPER 302 Motor Learning | 4 |
| HPER 333 Theory of Adapted Phys. Ed. | 3 |
| HPER 334 Field Experience II | 3 |
| HPER 404 History and Principles of Phys. Ed. | 4 |
| HPER 406 Organization & Admin. | 5 |
| HPER 409 Test & Measurements | 4 |
| HPER 495 School Health Problems | 5 |

Physical Education — Women

A woman may select one of the following plans:

Plan A. Kindergarten through 12th grade certification with special emphasis in teaching physical education at the elementary school level.

Plan B. Kindergarten through 12th grade certification with special emphasis in teaching physical education at the secondary level.

Methods Course:

| | |
|-------------------------|---|
| HPER 330W (Women) | 3 |
|-------------------------|---|

*Major Requirements:***Plan A. (Elementary Emphasis)**

| | |
|---|-----|
| Zool 301 Human Anat. | 6 |
| Zool 345 Human Physiology | 4 |
| HPER 106C Analys. of Movement | 3 |
| HPER 107C Mod. Dance I | 2 |
| OR | |
| HPER 108C Mod. Dance II | 2 |
| HPER 115C Rhythmic Activities | 2 |
| HPER 222W Tumbling & Mod. Gymnastics | 2 |
| HPER 225W Artistic Gymnastics | 2 |
| HPER 227C First Aid | 3 |
| HPER 234 Field Experience I | 1-3 |
| HPER 252C Kinesiology | 4 |
| HPER 275C Elem. School Rhythm & Dance | 3 |
| HPER 300C Elem. Phys. Ed. I | 3 |
| HPER 301C Elem. Phys. Ed. II | 3 |
| HPER 302C Motor Learning | 4 |
| HPER 333C Theory of Adapted Phys. Ed. | 3 |
| HPER 334C Field Exper. II | 3 |
| HPER 404C History & Prin. of Phys. Ed. | 4 |
| HPER 406C Organization & Admin. | 5 |
| HPER 409C Tests & Measurements | 4 |
| HPER 485C Percep. Motor Devel. in Children | 3 |
| HPER 495C School Health Problems | 5 |
| Select one of the following courses: | |
| HPER 103W Swimming I | 2 |
| HPER 104W Swimming II | 2 |
| HPER 218C Life Saving | 2 |
| HPER 220C Water Safety Instructors | 2 |
| Select one of the following courses: | |
| HPER 141W Archery-Golf | 2 |
| HPER 221W Tennis-Badminton | 2 |
| HPER 223W Track & Field | 2 |
| HPER 262W Field Hockey-Soccer | 2 |
| HPER 263W Basketball-Volleyball | 2 |
| HPER 264W Softball-Archery | 2 |

Plan B. (Secondary Emphasis)

| | |
|--|-----|
| Zool 301 Human Anat. | 6 |
| Zool 345 Human Physiology | 4 |
| HPER 106C Analys. & Movement | 3 |
| HPER 115C Rhythmic Activities | 2 |
| HPER 227C First Aid | 3 |
| HPER 234C Field Exper. I | 1-3 |
| HPER 252C Kinesiology | 4 |
| HPER 302C Motor Learning | 4 |
| HPER 333C Theory of Adapted Activities | 3 |
| HPER 334C Field Exper. II | 3 |
| HPER 404C Hist. & Prin. of Phys. Ed. | 4 |
| HPER 406W Organization & Admin. | 5 |
| HPER 409C Tests & Measurements | 4 |
| HPER 495C School Health Problems | 5 |
| Select three of the following courses: | |
| HPER 371W Theory & Prac. of Team Sports | 3 |
| HPER 372W Theory & Prac. of Indiv. Sports | 3 |
| HPER 373W Theory & Prac. of Aquatics | 3 |
| HPER 374W Theory & Prac. of Dance | 3 |
| HPER 375W Theory & Prac. of Gymnastics | 3 |
| Select one course from each area and elect three more. (Minimum — 16 hrs.) | |
| A. TEAM SPORTS: | |
| HPER 262W Field Hockey-Soccer | 2 |
| HPER 263W Basketball-Volleyball | 2 |
| HPER 264W Softball-Archery | 2 |
| B. INDIVIDUAL SPORTS: | |
| HPER 141W Archery-Golf | 2 |
| HPER 221W Tennis-Badminton | 2 |
| HPER 223W Track & Field | 2 |
| C. AQUATICS: | |
| HPER 103W Swimming I | 2 |
| HPER 104W Swimming II | 2 |
| HPER 218C Life Saving | 2 |
| HPER 220C Water Safety Instructor | 2 |
| D. GYMNASTICS: | |
| HPER 222W Tumbling & Mod. Gymnastics | 2 |
| HPER 225W Artistic Gymnastics | 2 |
| E. DANCE: | |
| HPER 107C Mod. Dance I | 2 |
| HPER 108C Mod. Dance II | 2 |

| | |
|---------------------------------------|---|
| HPER 116C Social Forms of Dance | 2 |
| HPER 337C Dance Comp. | 2 |

Social Psychology

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach social psychology, the following program must be completed. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach social psychology in grades seven through 12, inclusive.

Each person selecting social psychology as a major teaching field must have a second teaching field selected from biological science, general science, English, history, mathematics, political science, chemistry, physics, health, physical education, or industrial arts.

Social psychology is an experimental program and because of limited student placements only a few persons will be allowed to enter this program each year. Definite screening procedures have been established and you can gain more information by contacting the Student Personnel Services Office, Room 124, McCracken Hall.

Methods Course:

EdSe 479 Tchng. of Social Sciences in Jr. & Sr. H.S. 3

Major Requirements: 45

| | |
|---|---|
| Psy 121 Statistics | 5 |
| Psy 226 Experimental | 5 |
| Psy 241 Behavioral Measurement | 5 |
| Psy 336 Social | 5 |
| Psy 304 Human Learning | 5 |
| Psy 333 Personality | 5 |
| Select 5 hours from the following: Psy 301, 307, 312, 314, 327. | |
| Select ten hours from the following courses: | |
| Psy 332 Abnormal | 5 |
| Psy 310 Motivation | 5 |
| Psy 315 Individual Differences | 5 |
| Psy 351 Intro. to Clinical | 5 |
| Psy 376 Except. Child | 5 |
| Psy 173 Child & Adolescent | 5 |
| Seminars in social or developmental psychology. | |

Social Studies Comprehensive

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach under the social studies comprehensive, the following program must be completed. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach history, an integrated social studies course and any other component area in which at least 18 hours have been completed in grades seven through 12, inclusive.

Each student is to complete the required 36 hours of history and then complete 18 hours in one (or more if desired) of the other five fields (economics, geography, political science, sociology, and anthropology) and eight hours in each of the remaining fields. For example, a

student would complete the required 36 hours of history, the 18 hours required in political science and the required eight hours in each of the fields of economics, geography, sociology, and anthropology. In this example, the certificate issued would be valid for teaching history, an integrated course in social studies, and political science.

Methods Course:

EdSe 479 Tchng. of Social Studies in Jr. & Sr. H.S. . 3

Major Requirements: 90

A. History: 36

1. Select two of the following:
Hist 101, 102, 103 Western Civ. 8
2. Select two of the following:
Hist 211, 212, 213 U.S. Hist. 8
3. Select two courses for a minimum of 6 hrs of either U.S. or Modern European history at 300 level or above (Ohio History recommended)
4. Select two courses for a minimum of 6 hrs of non-U.S., non-Modern European history
5. Select sufficient electives in history at the 300 level or above to bring total to 36 hrs.

B. Select a minimum of 18 qtr hrs in ONE of the following fields AND a minimum of 8 qtr hrs in each of the other fields:

1. Political Science:
PoLS 101* and 102* OR 103* Am. National
Select any 10 add'l qtr hrs to fulfill 18 hr fld
2. Economics
Econ 101* and 102* or 301* and 302*
Elect any 10 additional qtr hrs to fulfill 18 hr field (may include EcEd 446)
3. Geography:
Geog 101*, 121*
Select one elective in regional geography (Geog 140, 141, 142, 240, 241, 242, 340, 343, 345, 351, 352, 355, 356) and one elective in upper level systematic geography (Geog 301, 311, 312, 321, 325, 327, 330, 331, 332, 420, 422, 429, and 430) and any needed electives.
4. Sociology:
Soc 101* or 302*
Select one course to complete 8 hr field*
Sociology elective including one course at the 400 level to complete 18 hr field.
5. Anthropology:
Anth 270* or 370*
Select one course to complete 8 hr field.*
Anthropology elective including one course at the 400 level to complete 18 hr field.

C. Select electives in any one or combination of the above fields to bring total qtr hrs to 90.

* Courses required in 8 qtr hr minimum choice

SPECIAL EDUCATION PROGRAMS

Three professional preparation programs are available to prospective teachers of exceptional children. These programs are for teachers of (1) educable mentally retarded children and children with learning and behavior disorders, (2) speech and hearing therapy, and (3) a combination of EMR/LD and early childhood education.

Learning Disabilities and Educable Mental Retardation

General Education Requirements

| | |
|--|-----|
| Humanities | 8 |
| Eight hours of humanities are required. Possible courses include any combination of the following: comparative arts, art history, great books (Hum 107, 108, 109, 307, 308, and 309), philosophy, art (except for Art 360, 460, 461, 462), music (except for music education and music therapy courses. No more than three one-hour participation courses would be acceptable), theater history courses. | |
| Natural Sciences | 8 |
| Eight hours of natural sciences are required. Possible courses include any combination of the following: botany, zoology, physics, geology, chemistry, or physical world. One of the courses taken must contain a laboratory component. | |
| Social Sciences | 8 |
| Eight hours of social sciences are required. Possible courses include the following: anthropology, economics, economic education, geography, political science, history, sociology, or social welfare. | |
| Psychology | 8 |
| Eight hours of electives in psychology are required. The following are recommended: Psy 121, 131, 241, 304, 310, 312, 315, 333, and 336. (EdGs 410 may be substituted for one psychology course.) | |
| InCo 101 or 103 | 3-4 |
| This course may be waived if one semester of speech has been completed in high school. | |
| Psy 101 Gen. Psych. | 5 |
| English, one course | 5 |
| Speech and Hearing Therapy | 3-4 |
| HSS 108 Intro. to Speech Disorders or HSS 336 Speech & Hearing Disorders in the Pub. Schools | |
| Math 120 | 5 |
| Math 120 is recommended; however, any mathematics course(s) numbered above 120 equaling five hours would be acceptable. | |
| Music | |
| Mus 160 Music Fundamentals | 3 |
| Mus 161 Music for Classroom Teacher | 3 |
| Art 360 Art for the Elementary Teacher or two of the following courses | 6 |
| ThAr 441 Creative Dramatics | 3 |
| IndT 391 Elem. Industrial Arts | 2 |
| IndT 109 Crafts | 2 |
| Mus 281 Social & Recreational Instru. & Materials | 3 |
| ThAr 240 Intro. to Child Drama | 2 |
| ThAr 340 Dramatic Lit. for Children | 3 |
| ThAr 440 Children's Theater | 3 |
| HPER 202 Personal & Community Health | 4 |
| HPER 250 Recreation Leadership | 3-5 |
| Or HPER 333 Theory of Adapted Activities; HPER 435 Recreation & Phys. Ed. for Mentally Retarded & Learning Disabled; EdSp 435 Recreation & Phys. Ed. for the Mentally Retarded & Learning Disabled. | |

Minor Area of Concentration

Students in special education are required to complete a 20-hour area of concentration in *one* related area outside of the College of Education, but including the schools of home economics and physical education.

Common minors are psychology, sociology, speech pathology, social work, natural science, and math.

Students may count courses taken to complete the general education requirements in the humanities, natural sciences, social sciences, and psychology, excluding Psy 101, toward ful-

fillment of the minor area of concentration.

Combination of several areas is not acceptable except in the natural sciences.

Related Professional Requirements

| | |
|---|---|
| EdEI 310 Tchng. of Reading & Lang. Arts in Elem. School | 6 |
| EdEI 460 Child & Curriculum | 4 |
| EdAV 480 A-V Methods & Materials | 4 |

Major Requirements

Block I

| | |
|--|---|
| EdSp 271 Intro. to Educ. of Except. Children | 3 |
| EdEI 200 Studies of Children | 4 |

Block II

| | |
|---|---|
| EdSp 272 Intro. to Educ. of Mentally Retarded | 3 |
| EdSp 373 Curriculum Devel. for Handicapped Children | 3 |
| EdSp 470 Classroom Mgt. of Problem Children | 3 |
| EdSp 490 Studies in Special Educ. | 2 |
| EdCI 275 Learner & Learning Proc. | 5 |

Block III

| | |
|---|---|
| EdSp 374 Tchng. Lang. Arts to Mentally Retarded (EdEI 310 is prereq.) | 4 |
| EdSp 375 Social Studies & Science for Mentally Retarded | 4 |
| EdSp 377 Voc. Educ. for Handicapped | 3 |
| EdSp 474 Diagnosis & Remediation of Special Learning Disabled | 4 |
| EdSp 490 Studies in Special Educ. | 2 |

Block IV

| | |
|--|---|
| EdSp 376 Math. for Mentally Retarded | 2 |
| EdSp 476 Tchng. of Learning Disabled | 4 |
| EdSp 477 Problems of Adjustment for Handicapped | 3 |
| EdEI 411 Diagnosis & Treatment of Reading Disabilities (EdEI 310 is prereq.) | 4 |
| EdSp 490 Studies in Special Educ. | 3 |

Courses in each block must be taken concurrently. Block II, III, IV are considered a full quarter of work.

Professional Laboratory Experience

| | |
|---|---|
| EdPl 360 or 361 Field Exper. or Field Service | 2 |
|---|---|

Field experience is a course in which a student spends nine days observing and participating in a special education classroom in a school of his or her choice in September, prior to the start of the junior year in college. Once the University commences there is only one evening meeting to attend. A student must register for this course as for any other course and must sign up for it in the Field Experience Office, Room 129, McCracken, in May prior to the September when it is to be done. Anyone interested in EdPl 361 Field Service in Educ. — rather than field experience should contact the Field Experience Office for information.

| | |
|-----------------------------------|----|
| EdPl 461 and 462 Stu. Tchng. | 13 |
|-----------------------------------|----|

| | |
|------------------------------------|---|
| EdPl 465 Stu. Tchng. Seminar | 3 |
|------------------------------------|---|

These three courses are taken concurrently in one quarter and constitute the student teaching requirement. A person should make an application for student teaching by December 1 of

the year prior to the year in which student teaching is to be taken. For example, anyone doing student teaching during any of the three quarters of the school year 1980-81 should apply for student teaching by December 1, 1979. For further information about student teaching, contact the Field Experience Office. Students must complete Block IV before entering student teaching.

Special Education/Early Childhood

Special Education/Early Childhood prepares persons to meet State of Ohio teacher certification requirements as teachers of the educable mentally retarded and as teachers of children with learning disabilities and/or behavior disorders, and to be teachers in preschool. At the present time, there is no teaching certificate for preschool; however, such certification is being discussed and may be enacted in the near future. The preschool aspect of this major meets what is currently being discussed as possible certification requirements. The concept of trained personnel working in special education with preschool children is one of the national trends in education.

General Education Requirements:

| | |
|--|-----|
| Social Sciences: 8 | |
| Econ 101 Prin. of Econ. | 4 |
| OR EcEd 346 Econ. in Curriculum | 3-5 |
| Soc 101 Intro. to Sociology | 5 |
| OR Soc 201 Social Problems | 4 |
| Natural Sciences: 9 | |
| Zool 101 Prin. of Biol. | 5 |
| OR Bot 101 Prin. of Biol. | 5 |
| Zool 103 Human Biol. | 4 |
| Psy 101 Gen. Psych. | 5 |
| InCo 101 Fundamentals of Speech | 3 |
| OR InCo 103 Pub. Spkng. | 4 |
| English, one course | 5 |
| HSS 108 Intro. to Speech Disorders | 3 |
| OR HSS 336 Speech & Hearing Disorders in the Pub. Schools | 3-4 |
| Math 120 Elem. Topics in Math. | 5 |
| Music: 6 | |
| Mus 160 Music Fundamentals | 3 |
| Mus 161 or 262 Music for Classroom Teacher | 3 |
| Art 360 Art for Elem. Teachers | 6 |
| HPER: 7-9 | |
| HPER 202 Personal & Community Health OR HPER 227 First Aid | 4 |
| HPER 333 Theory of Adapted Activities OR HPER 250 Recreation Leadership | 3 |
| OR HPER 435 Recreation & Phys. Ed. for Mentally Retarded & Learning Disabled | 5 |

Related Professional Education:

| | |
|---|---|
| EdEI 310 Tchng. of Reading & Lang. Arts in Elem. School | 6 |
| HECF 463 Preschool Admin. | 5 |
| EdEI 306 Kindergarten Educ. | 6 |
| EdGS 410 Human Relations | 3 |
| EdEI 321 Children's Lit. | 4 |
| EdAV 480 Intro. to Educ. Media | 4 |

Major:

Special Education: 49

Block I

| | |
|---|---|
| EdSp 271 Intro. to Educ. of Except. Children & Youth | 3 |
| HECF 160 Intro. to Child Devel. OR EdEI 200 Studies of Children | 4 |

Block II

| | |
|--|-----|
| EdSp 272 Intro. to Educ. of Mentally Retarded Children & Youth | 3 |
| EdSp 373 Curriculum Devel. for Handicapped Children | 3 |
| EdSp 470 Classroom Mgt. with Problem Children | 3 |
| EdCI 275 Learning Proc. in Classroom OR Psy 275 Educ. Psych. | 5 |
| EdSp 490 Study of Special Educ. | 1-5 |

Block III

| | |
|--|-----|
| EdSp 374 Lang. Arts for Mentally Retarded | 4 |
| EdSp 375 Social Studies & Science for Mentally Retarded | 4 |
| EdSp 377 Voc. Educ. for Handicapped | 3 |
| EdSp 474 Diagnosis & Remediation of Specific Learning Disabilities | 4 |
| EdSp 490 Study of Special Educ. | 1-5 |

Block IV

| | |
|--|-----|
| EdSp 376 Math. for Mentally Retarded | 2 |
| EdSp 476 Tchng. Learning Disabled | 4 |
| EdSp 490 Study of Special Educ. | 1-5 |

Early Childhood: 22

| | |
|--|---|
| HECF 360 Human Sexuality | 3 |
| HECF 363 Creative Exper. with Preschool Children | 4 |
| HECF 371 Family Devel. | 3 |
| HECF 462B Parenthood | 2 |
| HECF 462D One-Parent Family | 2 |
| HEFN 232 Infant & Child Nutrition | 3 |
| HECF 361 Prin. of Preschool Guidance | 4 |

Professional Laboratory Experience:

| | |
|---|---|
| EdPI 360 or 361 Field Exper. in Elem. or Second. Schools or Field Service in Educ. | 2 |
|---|---|

Field experience is a course in which a student spends a minimum of nine days observing and participating in an elementary classroom in a school of his or her choice in September prior to the opening of the University. This should be done the September prior to the start of the junior year in college. Once the University commences there is only one evening meeting to attend. A student must register for this course as for any other course and must also sign up for it in the Field Experience Office, Room 129, McCracken Hall, in May prior to the September when it is to be done. Anyone interested in EdPI 361, Field Service, rather than field experience should contact the Field Experience Office for information.

| | |
|--|----|
| EdPI 461 and 462 Stu. Tchng. in Elem. School | 13 |
| EdEI 465 Stu. Tchng. Seminar | 3 |

These three courses are taken concurrently in one quarter and constitute the student teaching requirement. A person should make an application for student teaching by December 1 of the year prior to the year in which student teaching is to be done. For example, anyone doing student teaching during any of the three quarters of the school year 1980-81, should apply by December 1, 1979. For further information contact the Field Experience Office.

| | |
|-------------------------------------|---|
| HECF 464 Nursery School Pract. | 6 |
|-------------------------------------|---|

Students must sign up with the director of the Nursery Child Care Center, at least one year in advance.

Speech and Hearing Therapy

General Education Requirements

| | |
|---------------------------------------|---|
| InCo 220 Oral Interp. of Lit. | 3 |
| OR | |
| InCo 115 Argumentation & Debate | 3 |

Select 27 quarter hours from the following areas to include at least one course from each of the four areas.

1. Science and/or Mathematics — Courses to be selected from: astronomy, botany, zoology, chemistry, physics, physical science, geology, or any course in the Mathematics Department EXCEPT 011, 032, 109A, 109B, 320, and 420. Psy 121 is also considered a math course.
2. Comparative Arts and/or Philosophy — Possibilities include any courses in the Philosophy Department; Comparative Arts Department; Hum 107, 108, 109, 307, 308, 309; Theater History courses; Art History courses; Art courses EXCEPT for Art 360, 460, 461, 462; School of Music courses EXCEPT for music education courses and music therapy courses; BSI 101, 119, 121, 302.
3. Social Science — Possibilities include anthropology, economics, geography, political science, history, sociology, or social welfare; BSI 103, 106, 107, 201, 251, 252, 253, 254, 264, 350, 360, 362, 440, 442, 490N.
4. English and/or Foreign Language — Ling 270 is required. Freshman and junior English composition courses taken to satisfy the University English composition requirement (see English Composition Requirement in the Graduation Requirements section of this catalog) may be used toward completion of these hours. Other possibilities include all English courses EXCEPT Eng 450A and 450B; any foreign language courses EXCEPT ML 410 and ML 445; Hum 107, 108, 109, 307, 308, 309 (these humanities courses may not count toward the general education requirements in both the English and/or foreign language fields and the comparative arts and/or philosophy field).

If one course in each of the above fields does not add up to a total of 27 quarter hours, then a student must elect sufficient hours in one or a combination of the above areas to bring the total hours in general education to 27 quarter hours.

Psychology:

| | |
|---|-----|
| Psy 101 Gen. Psych. | 5 |
| Psy 131 Psych. of Adjustment | 4 |
| EdEI 200 Studies of Children OR HECF 160 Intro. to Child Devel. OR Psy 173 Childhood Adolescent Psych. | 4-5 |
| Psy 332 Abnormal Psych. OR Psy 333 Psych. of Personality OR EdSp 272 Intro. to Educ. of Mentally Retarded Children & Youth | 3-5 |
| Psy 310 Motivation OR Ling 350 Intro. to Gen. Linguistics OR Psy 307 Psycholinguistics OR EdEI 400 Adv. Studies of Children OR Psy 490A-Z | 4-5 |

Professional Education

| | |
|--|-----|
| EdCI 275 Learning Processes in Classroom OR Psy 275 Educ. Psych. | 5 |
| EdSp 271 Intro. to Educ. of Except. Children & Youth OR Psy 376 Psych. of Except. Children | 3-5 |
| EdSp 474 Intro. to Learning Disabilities | 4 |
| HSS 343 School & Clinical Program | 2 |

Professional Laboratory Experience

EdPl 360 or 361 Field Experience in Elem. or
Second. Schools or Field Service in Educ. 2

Field experience is a course in which a student spends nine days observing and participating with a special therapist in a school of his or her choice in September prior to the start of the University. This should be done the September prior to the start of the junior year in college. Once the University commences, there is only one evening meeting to attend. A student must register for this course as for any other course and must also sign up for it in the Field Experience Office, Room 129, McCracken Hall, in May prior to the September when it is to be done. Anyone interested in EdPl 361 — Field Service in Educ. — rather than field experience should contact the Field Experience Office.

EdPl 461 and 462 Stu. Tchng. 13
EdPl 465 Stu. Tchng. Seminar 3
OR
HSS 437 Speech & Hearing Therapy in
Pub. Schools 2

The last three courses are taken concurrently in one quarter and constitute the required student-teaching requirement. A person should make an application for student teaching by December 1 of the year prior to the year in which student teaching is to be taken. For example, anyone doing student teaching during any of the three quarters of the school year 1980-81 should apply for student teaching by December 1, 1979. For further information about student teaching, contact the Field Experience Office in McCracken Hall.

Major Requirements

HSS 107 Voice & Articulation 2
HSS 108 Intro. to Speech Disorders 3
HSS 209 Phonetics 4
HSS 210 Lang. Development 5
HSS 240 Practi. 2
HSS 213 Anat. 4
HSS 250 Speech Science 4
HSS 270 Basic Audiology 5
HSS 222 Diagnostics 4
HSS 318 Articulation Disorders 4
HSS 315 Stuttering 3
HSS 341 Practi. 3
HSS 344 Disorders of Lang. 4
HSS 345 Social Dialects 3
HSS 319 Voice & Resonance 3
HSS 471 Auditory Rehabilitation 5
HSS 479 Basic Manual 2
HSS 442 Practi. 2
HSS 424 Neuropathology 4

STUDENT TEACHING

Successful student teaching represents the culmination of the program of professional preparation; it is a requirement for the bachelor of science in education degree for persons pursuing programs which are designed to result in eligibility for teacher certification. No candidate will be considered for recommendation for a teaching certificate who has not completed, under the supervision of Ohio University, at least 13 quarter hours of observation, participation, and student teaching.

Application

It is the responsibility of the student to enter an application for student teaching in the office of the director of field experience not later than December 1 preceding the academic year in which a student teaching assignment is desired.

Schedule and Facilities

Students experience the complete range of the teacher's activities in full-time student teaching assignments for one quarter. Each student must plan carefully during the first three years of college to provide for a completely free quarter to engage in full-time student teaching. Majors in elementary education will follow a plan providing for student teaching in the last quarter of the junior year or the first or second quarter of the senior year. Majors in secondary academic areas and special fields will normally be assigned to student teaching during one of the quarters of the senior year.

The assignment of each student to a school is the responsibility and prerogative of the director of field experience. Students will be assigned to one of our existing centers which are in the following areas: Belmont County, Chillicothe, Lancaster, Portsmouth, Zanesville, and Athens.

Students must secure their own housing and provide their own transportation to their assignments. Privately owned cars will be needed except by students assigned in metropolitan centers where public transportation is available. Students should not make definite plans to live in Athens during the student-teaching quarter since only a small percentage of those expressing a preference for the Athens area (commuting radius 40-55 miles) can be accommodated. The University assumes no responsibility for the transportation of students.

Prerequisites for Student Teaching

Applicants are evaluated for admission to student teaching in terms of the prerequisites described in this section. Any exceptions are the responsibility of the director of field experience. The student teaching applicant is responsible for meeting the appropriate prerequisites prior to the opening of the quarter designated for student teaching on his or her application. In addition to the prerequisites detailed herein, applicants in health, music, industrial arts, physical education, home economics, and speech and hearing therapy must have approval of the appropriate departmental head.

Enrollment in student teaching is open only to Ohio University degree candidates or to degree holders who are completing Ohio certification requirements and who will be eligible for Ohio University's recommendation for an Ohio certificate upon the completion of student teaching.

Possible changes in prerequisites due to program revision may be secured in Room 129 McCracken Hall.

General prerequisites:

1. **Residence:** Completion of at least two quarters (30 quarter hours) of residence work.

Transfer students must complete at Ohio University at least one-fourth of the preparation in the principal teaching field.

2. Completion of at least 120 quarter hours of course credit in elementary and 135 quarter hours in secondary education and special education.
- 3.* Completion of field experience, EdPI 360, or by special permission, EdPI 361. These experiences will be completed in September or during the summer prior to the student's junior year and should be arranged with the director of field experience in the spring quarter of the sophomore year.
4. **Scholastic average:** The student must have a point-hour ratio of 2.0 (C) on all hours attempted.
5. Admission to junior standing in teacher education at least one full quarter prior to student teaching.

Special prerequisites for student teaching in elementary education and in elementary education/early childhood:

1. 2.25 cumulative point-hour ratio on all courses which must be completed in the following group: EdEI 200, 310, 330, 340, 350; Art 360; Mus 161, and EdCI 275 or Psy 275.
2. Completion of all courses required (prior to the designated student teaching quarter) as indicated on the student's planned program outline (A, B or C).

Special prerequisites for student teaching in kindergarten:

1. Completion of EDEL 306.
2. Completion of one full quarter of student teaching in elementary education.

Special prerequisite for student teaching for special education and for special education/early childhood majors:

1. Completion of Blocks I, II, III, and IV in the special education program and attaining a 2.25 cumulative average therein.
2. Speech and hearing therapy majors must complete EdCI 275 or Psy 275, EdSp 271 or Psy 376, and HSS 443, obtaining a cumulative average of 2.25, and must have completed at least three-fourths of the major with a 2.25 average.

Special prerequisites for student teaching in secondary academic and special subjects:

1. Completion of EdCI 275 or Psy 275, EdSe 250, EdSe 351 and the methods courses in the major teaching field, attaining a cumulative point-hour ratio of 2.25.
2. Students preparing to teach in one field must complete a teacher education major.

3. Completion of a major portion (at least three-fourths) of the work in each of the teaching fields in which the student wishes to be certified. A cumulative point-hour ratio of 2.25 must be attained in the principal teaching field. An average of at least 2.0 must be achieved in the second teaching field and in each principal component of the comprehensive majors.
4. Completion of general education requirements for certification in accordance with a pattern adopted by the University, consistent with state teacher certification laws and regulations.

*Waived for students graduating in 1979-80, 1980-81.

TEACHING CERTIFICATES

A student who plans to teach in Ohio makes application for a teaching certificate at the time of application for graduation.

Applications may be obtained from the Student Personnel Services Office, McCracken Hall. The teaching certificate is issued by the State Department of Education and qualifies the student to teach the subjects indicated on the certificate.

Completion of requirements for graduation and of the professional courses required for certification does not insure that the individual will be recommended for certification. Instructors in various courses, and especially in courses in education and student teaching, will attempt to evaluate a student's fitness for the teaching profession in ways other than observation of academic performance in the classroom. Any reports of limitations which might tend to impair the individual's usefulness as a teacher in the public schools will be made a part of the record. When the student applies for certification this record will be examined and the question of his or her fitness for teaching will be given further consideration.

Students who are not planning to teach in Ohio should inform themselves concerning the requirements specified by the departments of education of the states in which they expect to teach.

Reciprocity

Ohio now participates in the Interstate Agreement on Qualification of Educational Personnel and has already entered into an implementation contract with the following states:

| | |
|-------------|----------------|
| Alaska | New Hampshire |
| California | New Jersey |
| Connecticut | New York |
| Delaware | North Carolina |
| Florida | Oklahoma |
| Hawaii | Rhode Island |
| Idaho | South Dakota |
| Indiana | Utah |

| | |
|---------------|---------------|
| Kentucky | Vermont |
| Maine | Virginia |
| Maryland | Washington |
| Massachusetts | West Virginia |
| Nebraska | Wisconsin |

Major Field of Specialization

The level of preparation in the major area of specialization must correspond with the outline on the preceding pages, even though these requirements in many instances exceed those shown in the state certification regulations.

Second Teaching Field

The level of preparation in the second certifiable field must equal or exceed requirements shown in the regulations of the Division of Teacher Education and Certification of the State Department of Education. Curriculum guides for minors are available in the Student Personnel Services Office, Room 124, McCracken Hall. The following minors have been approved:

- Biological science
- Bookkeeping-basic business
- Chemistry
- Earth science
- Economics
- Educational media
- English
- Environmental education
- French
- General science
- German
- Health education
- History
- Industrial arts
- Journalism
- Latin
- Mathematics
- Physics
- Physical education
- Political science
- Russian
- Social psychology
- Sociology and anthropology
- Spanish
- Speech

Any secondary, special field, elementary or special education certificate can be validated to teach the following areas:

- Data processing
- Driver education
- Reading

Requirements for these validation areas may be obtained in the Student Personnel Services Office, McCracken Hall.

PLACEMENT

The Placement and Internship Service, located in Lindley Hall, offers assistance to undergraduate and graduate students and alumni

of the university who are seeking educational positions.

Information concerning available teaching and administrative positions in the public schools, as well as openings in education, student personnel, home economics, counselor education, industrial arts, and physical education departments of colleges and universities of most states and many foreign countries is disseminated through the bureau.

SCHOOL OF NURSING

BACCALAUREATE PROGRAM

The bachelor of science in nursing degree program has a dual purpose. The first is to prepare a beginning professional practitioner of nursing who can provide health care to persons, families and groups in a variety of settings through the utilization of a nursing process that incorporates both scientific and humanistic concepts. The second is to provide an educational base upon which graduate study for specialization as a clinician, teacher, administrator or researcher might be built. Liberal learnings are progressively developed throughout the program and provide the base of the rationale for the nursing major.

The nursing program has been tailored to meet the regional needs of nurses for baccalaureate preparation. This program is designed for registered nurses and provides the upper two-year division courses leading the student to the bachelor of science in nursing degree. The program strives to prepare:

1. practitioners with the primary skills necessary to meet the complex health needs of a widening age range of clients;
2. practitioners with abilities to utilize research findings in planning, giving, and evaluating nursing care;
3. practitioners with decision-making ability;
4. practitioners with individual and family-centered community orientation;
5. practitioners with a sense of commitment to provide high-quality nursing care;
6. practitioners with skills in health teaching and health maintenance;
7. practitioners with a sense of accountability for their practice and with an understanding of their collegial relationships with others in providing interdisciplinary approaches to health care;
8. practitioners with skills and abilities to make critical nursing judgments based on the art and science of nursing; and finally,
9. practitioners with appropriate preparation who have been educated to be able to function independently with clients

and families and interdependently with colleagues in nursing and other disciplines.

Program Prerequisites

Each student's basic nursing program will be evaluated on its own merits by an officer of Ohio University. As in any higher level program, certain stated prerequisites must be met by the applicant. The first of these is being graduated from a State Board of Nursing approved program of nursing, either at the associate degree level or in a hospital diploma program. The second is holding current licensure in Ohio as a registered nurse. The other prerequisites to applying to the program are:

One course in college English or communication (100-level English or InCo 101 or 103)*

Introduction to sociology (Soc 101)*

High school chemistry or one course in beginning chemistry or equivalent (Chem 121)*

Introduction to psychology (Psy 101)*

Nutrition and diet therapy (content may be integrated within nursing courses) (HEFN 128)*

Psychology of growth and development or equivalent (Psy 173 or HECF 160 or EdEl 200)*

*The information given in parentheses are the Ohio University equivalents.

Program Admission Criteria

This program is limited to persons permitted to practice registered nursing under the Ohio Code. Other admission criteria include:

1. Official transcripts from basic nursing program and any other post-secondary education institutions.
2. Letters of recommendation from an employer who can give reference to the qualities of applicant's practice; from an associate or friend who can give character reference; and from a physician who can give reference to applicant's health status.
3. Counseling interview with program director or designate.
4. Agrees to undertake National League for Nursing achievement tests administered at the beginning and end of the program at the student's expense.
5. Must hold liability insurance coverage.

Curriculum Design

The increasing complexity of health care problems requires knowledgeable nurses capable of human concerns who are as competent in exercising their specific responsibilities in maintaining and promoting the health of families and communities as in fulfilling their unique functions in the care of the sick.

These abilities are most likely to be found in the nurse who has studied the liberal learnings

concomitantly with the health, nursing, and medical sciences. (An illustrative schedule is provided to show this blending of nursing topics and supportive courses.)

The instructional program is competency based, self-pacing, individualized, and personalized. Each clinical nursing subject provides increasing depth and application of the nursing process. The curriculum instills attitudes of value toward life-long learning and provides for a logical transition from baccalaureate level to graduate study and/or to employment in the practice of nursing.

Required Courses in Nursing (50 qtr. hrs.)

| | |
|--|---|
| NBSP 300 Concepts of Health Care I | 5 |
| NBSP 320 Concepts of Health Care II | 5 |
| NBSP 330 Concepts of Health Care III | 5 |
| NBSP 340 Concepts of Health Care IV | 5 |
| NBSP 360 Concepts of Health Care V | 5 |
| NBSP 302 Concepts of Health Care VII | 5 |

Elective Courses in Nursing (Select four)

| | |
|--|-----|
| NBSP 380 Concepts of Health Care VI | 5 |
| NBSP 400 Concepts of Health Care VIII | 5 |
| NBSP 452 Concepts of Health Care IX | 5 |
| NBSP 454 Concepts of Health Care X | 5 |
| NBSP 456 Concepts of Health Care XI | 5 |
| NBSP 458 Concepts of Health Care XII | 5 |
| NBSP 460 Concepts of Health Care XIII | 5 |
| NBSP 390 Concepts of Health Care XIV | 5 |
| NBSP 464 Concepts of Health Care XV | 5 |
| NBSP 466 Concepts of Health Care XVI | 5 |
| NBSP 395 Concepts of Health Care XVII | 5 |
| NBSP 470 Concepts of Health Care XVIII | 5 |
| NBSP 490 Concepts of Health Care XIX | 1-5 |

Required Courses in General Education

Statistics (Select one)

| | |
|---|---|
| Psy 121 Elem. Stat. for Behavioral Sciences | 5 |
| Soc 350 Social Stat. | 4 |

Psychology (Select one)

| | |
|---|---|
| Psy 315 Psych. of Human Differences | 5 |
| Psy 332 Abnormal Psych. | 5 |
| Psy 333 Psych. of Personality | 5 |
| Psy 336 Social Psych. | 5 |

Sociology (Select two)

| | |
|--|---|
| Soc 220 Intro. to Family Sociology | 4 |
| Soc 309 Sociology of Appalachia | 4 |
| Soc 329 Minority Group Relations | 4 |
| Soc 365 Madness in Society | 4 |
| Soc 424 Urban Sociology | 4 |
| Soc 425 Rural Sociology | 4 |
| Soc 430 Sociology of Organizations | 4 |
| Soc 331 Class & Soc. Ineq. | 4 |
| Soc 433 Sociology of Occupations & Professions | 4 |
| Soc 465 Social Change | 4 |
| BSI 362 Black Family | 5 |

Human Relations and Communications (Select one)

| | |
|--|---|
| EdGS 410 Human Relations | 3 |
| EdGS 440 Foundations in Group Dynamics | 4 |
| Eng 308 Advanced Composition | 5 |
| InCo 334 Introduction to Communication Theory | 4 |
| InCo 404 Principles and Techniques of Interviewing | 4 |
| InCo 405 Prin. of Conf. Leadership | 4 |
| InCo 445 Communication in Organizations | 4 |
| Mgt. 440 Organ. Behavior, Leadership and Motiv. | 4 |

Physiology and Pathology (Select two)

| | |
|--|---|
| HSS 422 Diagnostic Procedures in Speech Pathology | 3 |
| Psy 312 Physiological Psych. | 5 |
| Soc 361 Deviant Behavior | 4 |
| Zool 384 Bioethical Problems in Biology & Medicine | 5 |
| Zool 390 Biology and the Future of Man | 5 |
| Zool 448 Cell Physiology | 4 |
| Zool 449 Cell Physiology Laboratory | 4 |
| Zool 450 Prin. of Endocrinology | 4 |
| Zool 451 Endocrinology Laboratory | 4 |

The students, with advisement, will select approximately 25 additional credits from the general education sector. These courses will be upper-division courses from the 300-400 array and will support the student's major interest pattern in nursing. Approximately 90 undergraduate credits will be derived by transfer of academic work earned in the student's basic nursing program. The bachelor of science degree in nursing is granted upon the completion of the program of 192 quarter hours, with a point-hour ratio of 2.0 (C) on all hours attempted. A grade of C or higher must be earned in each course offered by the School of Nursing (NBSP courses). If a grade of C is not earned, then the course must be repeated. A student must file a Repeated Course Form with the Student Personnel Services Office in order to have the C or better grade counted for graduation and point-hour ratio.

Substitution for Required Courses

A student who wishes to substitute another course for any prescribed in the curriculum or required for the degree for which the student is working must obtain permission from the Student Personnel Services Office, McCracken Hall.

Curriculum Model

| | Nursing | Liberal Learnings |
|---|--|--|
| Ohio University upper-division | Approximately 50% nursing courses 20 elec. hrs. 30 req. hrs. | Approximately 50% general education 25 elec. hrs. 27 req. hrs. |
| Transfer program lower-division | 50% weight to basic nursing courses | 50% weight to general education and supportive courses |
| Transfer-in program (individually assessed) | | Approx. 90 cr. |
| Prerequisites and suggested remedial or renewal learnings | | |
| Upper division in nursing | | |
| required | | 30 cr. |
| elective | | 20 cr. |
| Upper division in liberal learnings | | |
| required | | 27 cr. |
| elective | | 25 cr. |
| | | 192 cr. |

Illustrative Schedule

| Junior Year | Senior Year |
|----------------------------|-------------------------|
| NBSP 300 | NBSP 340 |
| NBSP 302 | NBSP 360 |
| NBSP 320 | Nursing electives |
| NBSP 330 | Zool 384 |
| Nursing electives | Zool 390 |
| Psy 121 (statistics) | Soc 430 |
| Psy 333 | Soc 465 |
| EdGS 410 | Liberal learnings elec. |
| Eng 308 | |
| Liberal learnings elec. | |

Advisement

Counseling and advisement are critical to the individualizing and concrete planning of each student's course schedule. Interest patterns in community nursing, critical care nursing, leadership, emotional and mental illness, and the like can be developed through the elective offerings.

Students interested in the courses leading to certification in school nursing will need to contact their advisors to insure meeting the standards set by the Ohio State Department of Education.

Special Facilities

The program in nursing provides for a variety of activities and experiences across the broad grouping of health maintenance facilities as well as acute care centers. Students will have responsibilities related to selected families in the region and will develop skills related to collaborative and team approaches to their health care needs.

Complementing the learning resources of the University, the school uses selected facilities such as O'Brien Memorial Hospital and the Athens Mental Health Center; Holzer Medical Center, Gallipolis; Veterans Administration facilities and Ross County Medical Center, Chillicothe; Guernsey Memorial Hospital, Cambridge; Barnesville Hospital; St. Joseph and Camden-Clark Hospitals, Parkersburg; physician's offices; community health planning agencies; and public health centers for clinical laboratory learnings. These facilities are located in the immediate Athens area and the surrounding extended Ohio University campus areas. Since each student is responsible for his or her own transportation to clinical facilities, a car is essential. In addition, the University reserves the right to institute a clinical laboratory fee. Students will need to purchase assessment tools, including stethoscope and the like.

The College of Engineering and Technology

Richard S. Mayer, *Dean*

Harry L. Hoffee, *Assistant Dean*

The College of Engineering and Technology offers curricula leading to the bachelor of science degree in the fields of chemical, civil, electrical, industrial and systems, and mechanical engineering; and industrial technology. These curricula are focused on the engineering profession in which a knowledge of the mathematical and natural sciences gained by study, experience, and practice is applied to develop ways to utilize, economically, the materials and forces of nature for the benefit of mankind and the environment. Graduates have both the theoretical and practical training to begin professional careers or continue advanced work at the graduate level. Program flexibility is provided through options and electives so that the student may concentrate his or her studies in a chosen area within the department, or alternately use these electives in other areas such as law, business, or other professional fields.

All engineering curricula are fully accredited by the Engineers' Council for Professional Development, the national accrediting organization for engineering programs.

With careful planning a student may, in addition to the bachelor of science degree from this college, obtain a second degree from the College of Arts and Sciences, the College of Business Administration, or the College of Fine Arts upon completion of 15 quarters in the University. (See "Degree, Second Bachelor's.")

In addition to the Financial Aids Program sponsored by the University, the College of Engineering and Technology and its departments have separately funded scholarships. The student should request information from the individual departments or from the office of the dean.

The U.S. Office of Education projections of engineering degrees indicate that, between now and 1985, the number of bachelor's graduates in engineering each year will average about ten percent below the 54,000 needed to meet

projected needs. This estimate would include students who transfer into four-year engineering baccalaureate programs after completing two-year engineering technician programs. The nation's needs for technical expertise to help solve our energy, transportation, food, housing, and balance-of-payment problems would be prime factors for this projected need-to-supply ratio.

Degree Requirements

A candidate for a degree in the College of Engineering and Technology must satisfy all of the curriculum requirements of his or her particular field as specified on the following pages. In addition he or she must have a 2.0 (C) average on all hours attempted and a 2.0 (C) average on all hours attempted in courses offered in our college that are required for graduation including required technical electives. These averages will be computed on final hours and points in repeated courses, if any.

Admission to an Engineering and Technology Program

Upon admission to Ohio University, an entering freshman who has an objective of obtaining a degree in engineering or industrial technology may request direct entry into the College of Engineering and Technology. The student should indicate the choice of discipline on the official application for admission to the University, assuring the assignment of a faculty advisor in the department of his or her choice. In the event a student has not decided upon the specific major within the college, (area of concentration code #0910), the assistant dean will serve as his or her advisor until a choice of major is made. Students can readily change their majors both within the college and from college to college and at all times are

eligible to take courses in all colleges of the University.

Students not requesting direct entry into the College of Engineering and Technology will be enrolled in the University College. These students should read the statements included in the University College section of this bulletin. Each student should indicate his or her choice of curriculum on the official application to the University. This will assist in the assignment of an advisor from the University College staff and proper guidance for the student in the desired program of study. Students in University College with an interest in engineering are encouraged to contact the various departments and/or the dean's office in the College of Engineering and Technology for information and assistance in the planning of their programs of study.

Course requirements for the freshman year in each of the major departments within the College of Engineering and Technology are nearly identical. Hence, while it is desirable to indicate a specific major field of study earlier, a student seeking a degree in this college *could* defer a decision on a specific major field of study until the beginning of the sophomore year.

After completing degree requirements in the College of Engineering and Technology, the engineering student is qualified to seek, by examination, registration as a professional engineer from the Board of Registration for Professional Engineers of the state in which he or she intends to practice. It is to the student's advantage to take the examination during the spring or fall quarter closest to the expected time of graduation or as soon after graduation as is possible.

Graduate programs leading to the MS degree are available in all of the programs. In addition, graduate work leading to the PhD degree is available in chemical and electrical engineering with post-master's work in the other engineering departments under consideration. These programs are described in detail in bulletins issued by the Graduate College of Ohio University.

Requirements for Continuing in the College

A student enrolled in the College of Engineering and Technology who maintains an average of 2.0 (C) or better in all hours attempted at Ohio University and also in all hours attempted in the College of Engineering and Technology that are required for graduation (including required technical electives) continues in his or her program in a normal manner. Averages in either of these two categories below 2.0 (C) result in deficiency points and probation. The academic records of a student who is on probation or who acquires deficiency points in any quarter are reviewed by the student's department chairman and by the assistant dean of the college to determine if such

student may continue in the program. A student who is placed on University probation at the end of any quarter must receive a minimum of nine quarter hours of credit with a 2.0 (C) or better average in his or her next quarter of attendance or be dropped from the University. These credits must be in courses directly applicable to the degree requirements. In the subsequent quarter the student's academic progress must be such that he or she is removed from probation or the student will be dropped from the University. Students who are placed on college probation at the end of any quarter must receive a 2.0 (C) average or better in subsequent quarters in their Engineering and Technology courses or they will be subject to be dropped from their programs. Students on probation should discuss the matter with their academic advisors, department chairmen, and/or the assistant dean of the college. Students who are dropped from the University or from the college may appeal the decision by contacting the department chairman or the assistant dean of the college.

Humanities-Social Science Electives

Each major departmental curriculum includes an extensive program of study in the social sciences and humanities. Lists of courses, which satisfy this requirement, are maintained in each major departmental office and in the office of the dean.

English Requirement

In addition to the curricula requirements as stated on the following pages for departments in engineering and technology, all students must also satisfy the University curricula requirements in English.

Pass/Fail Option

Students in the College of Engineering and Technology may elect to take courses on a pass/fail basis within eligibility requirements as stated in the *Credit and Grading* section of this bulletin.

Repeating A Course

When a course is repeated, both grades continue to be used to determine the cumulative point-hour ratio until the student applies for and completes a repeated course form available in the office of the dean. A course may not be repeated after an advanced course in the same field has been passed if the course that the student desires to repeat was a prerequisite for the advanced course.

Course Credit by Examination or correspondence may not be used to earn credit in a course required for graduation which the student has previously failed.

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

The chemical engineering program is planned so that its graduates are familiar with the techniques used in analyzing and solving engineering problems associated with the chemical and related industries (petroleum, metallurgical, plastics, pollution control, etc.). In addition, the program provides an excellent background for graduate study in engineering, science, business administration, law or medicine.

Study in chemistry, mathematics, physics and communication skills is emphasized. Courses in engineering fundamentals are introduced, followed by intensive work in engineering analysis and design. Emphasis is placed upon the application of principles from many fields of study to the solving of engineering problems. Computer solutions, process control theory, economics and similar topics are stressed. Electives permit the student to pursue his or her interest in humanities, social sciences and technical areas.

Freshman

Fall

| | |
|-------------------------------|--------|
| ET 100 Engr. & Tech. | 3 |
| ET 180 Problem Solving | 3 |
| Chem 141 Intro. College Chem. | 5 |
| Soc. Sci. or Hum.** | 4 or 5 |

Winter

| | |
|---------------------------------|--------|
| Math 263A Analyt. Geom. & Calc. | 5 |
| Chem 142 Chem. Energetics | 5 |
| EG 101 Engr. Graphics* | 3 |
| Soc. Sci. or Hum.** | 3 or 4 |

Spring

| | |
|---------------------------------|--------|
| Math 263B Analyt. Geom. & Calc. | 5 |
| Chem 143 Quant. Analys. | 5 |
| InCo 101 or 103* | 3 or 4 |
| Soc. Sci. or Hum.** | 3 or 4 |

*May be taken in any order.

Sophomore

Fall

| | |
|---------------------------------|---|
| Math 263C Analyt. Geom. & Calc. | 5 |
| Chem 305 Organic Chem. | 3 |
| Phys 251 Gen. Phys. | 5 |
| ChE 200 Intro. Chem. Engr. | 4 |

Winter

| | |
|--------------------------|---|
| Chem 306 Organic Chem. | 3 |
| Phys 252 Gen. Phys. | 5 |
| CE 220 Statics | 4 |
| Math 340 Diff. Equations | 5 |

Spring

| | |
|----------------------------------|---|
| Chem 307 Organic Chem. | 3 |
| Phys 253 Gen. Phys. | 5 |
| ChE 331 Prin. of Engr. Materials | 4 |
| Chem 303 Organic Chem. Lab | 1 |
| Soc. Sci. or Hum.** | 4 |

Junior

Fall

| | |
|---------------------------|---|
| ChE 302 Thermo-Kinetics I | 5 |
| ChE 342 Unit Oper. I | 5 |
| ChE 343 Unit Oper. II | 3 |

| | |
|-----------------------|---|
| ChE 418 Materials Lab | 2 |
| Chem 453 Phys. Chem. | 3 |

Winter

| | |
|-----------------------------|--------|
| ChE 303 Thermo-Kinetics II | 4 |
| ChE 344 Unit Oper. III | 5 |
| ChE 363 Synthesis & Analys. | 2 |
| Chem 454 Phys. Chem. | 3 |
| Soc. Sci. or Hum.** | 3 to 5 |

Spring

| | |
|-----------------------------|---|
| ChE 304 Thermo-Kinetics III | 4 |
| ChE 400 Appld. ChE Calc. | 5 |
| Chem 455 Phys. Chem. | 3 |
| Chem 456 Phys. Chem. Lab | 2 |
| ChE or Tech. Elec. | |

Senior

Fall

| | |
|----------------------------|---|
| ChE 415 Lab III-Unit Oper. | 3 |
| ChE 442 Proc. Control | 4 |
| ChE 443 Design | 4 |
| EE 313 Basic Elec. Engr. I | 3 |
| ChE or Tech. elec. | |

Winter

| | |
|-----------------------------|---|
| ChE 417 Lab V-Proc. Control | 2 |
| ChE 444 Design | 3 |
| ChE 480 Colloquium | 1 |
| EE 314 Basic Elec. Engr. II | 3 |
| Technical Elective*** | 3 |
| Soc. Sci. or Hum.** | 4 |

Spring

| | |
|--------------------------|---|
| ChE 416 Lab IV-Unit Oper | 3 |
| ChE elect. | 3 |
| Technical Elective*** | 6 |
| Soc. Sci. or Hum.** | 3 |

The program listed above contains the minimum of 192 hours of required courses for the degree.

**Note that, in general, courses outside the chemical engineering sequence can be taken at anytime provided prerequisites have been met. A total of 24 hours must be taken in social sciences and humanities, with a minimum of nine hours in each area.

***Minimum list available in departmental office. These are courses in the areas of engineering, chemistry, mathematics and physics. Minimum of 3 Ch.E. and 9 Tech. Elect. hours required.

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

The civil engineering curriculum is designed to give the student a broad understanding of the basic physical sciences and mathematics. It provides a knowledge of civil engineering principles and practice in the areas of (1) engineering materials, including fluids and soils; (2) design of highways and other transportation facilities, including traffic control systems; (3) design and construction of structures of all types, and (4) environmental sanitation with particular emphasis on water supply and waste-water disposal. The curriculum also is designed to enhance the student's understanding of the world and its culture by introducing him or her to university-level study in humanities and social sciences.

Civil engineers are primarily responsible for planning the design and construction of all the nation's constructed facilities. They plan, produce, and help operate the nation's transportation system. They must develop yet con-

serve water resources. They have a large role in designing the country's environmental protection relating to water, air, and solid wastes. They are involved in housing and urban development. They study the earth's soils and oceans to better serve man.

Graduates are prepared to go on to advanced study or to find employment with consulting engineering firms, private corporations, or government agencies.

Freshman

Fall

| | |
|------------------------------|---|
| Chem 121 Gen. Chem. | 4 |
| ET 100 Engr. & Tech. | 3 |
| ET 180 Problem Solving | 3 |
| Elective | |

Winter

| | |
|------------------------------|---|
| Chem 122 Gen. Chem. | 4 |
| Math 263A Geom. & Calc. | 5 |
| EG 101 Engr. Drawing | 3 |
| Elective | |

Spring

| | |
|------------------------------|---|
| Chem 123 Gen. Chem. | 4 |
| Math 263B Geom. & Calc. | 5 |
| CE 210 Plane Surveying | 4 |
| InCo 103 Pub. Spkng. | 4 |

Sophomore

Fall

| | |
|------------------------------|---|
| Math 263C Geom. & Calc. | 5 |
| CE 220 Statics | 4 |
| EG 121 Descr. Geom. | 3 |
| Phys 251 Physics | 5 |

Winter

| | |
|----------------------------------|---|
| ET 240 Intro. to Computers | 4 |
| CE 321 Dynamics | 4 |
| Phys 252 Physics | 5 |
| Elective | |

Spring

| | |
|--|---|
| Geol 283 Geol. | 5 |
| CE 222 Strength of Materials | 4 |
| CE 223 Strength of Materials Lab | 1 |
| Phys 253 Physics | 5 |

Junior

Fall

| | |
|----------------------------------|---|
| CE 330 Struct. Theory 1 | 5 |
| CE 340 Fluid Mechanics | 5 |
| CE 341 Fluid Mechanics Lab | 1 |
| Math 340 Diff. Equations | 5 |

Winter

| | |
|-----------------------------|---|
| CE 370 Soils | 4 |
| ME 321 Thermodynamics | 4 |
| CE 311 Route Engr. | 4 |
| ISE 304 Statistics | 3 |

Spring

| | |
|----------------------------------|---|
| CE 342 Appld. Hydraulics | 3 |
| CE 343 Hydrology | 4 |
| CE 361 Transportation | 4 |
| ChE 331 Prin. of Materials | 4 |

Senior

Fall

| | |
|----------------------------------|---|
| CE 433 Steel Design | 4 |
| CE 450 Water Treatment | 3 |
| EE 313 Basic Elec. Engr. I | 3 |
| Elective | |

Winter

| | |
|-----------------------------------|---|
| CE 432 Concrete Design | 4 |
| CE 451 Wastewater Treatment | 3 |

| | |
|-----------------------------------|---|
| EE 314 Basic Elec. Engr. II | 3 |
| Elective | |

Spring

| | |
|-----------------|--|
| Electives | |
|-----------------|--|

Above list shows only courses specifically required for a civil engineering degree. In addition to these, 24 credit hours are required in the humanities and social sciences with no fewer than eight in either field. A list of acceptable electives is available in the civil engineering office.

Also, in addition, any three civil engineering courses taken from the list below are required: fall quarter — CE 471 Found., CE 424 Str. Mtls., CE 452 Wtr. Anal.; winter quarter — CE 331 Struct. Th., CE 415 Photo., CE 457 Wtr. Res., CE 462 Traffic; spring quarter — CE 434 Struc. Des., CE 481 Pavement Design, CE 410 Surveying II.

Qualified students may, with the permission of the instructor, substitute certain graduate-level courses for the foregoing civil engineering electives.

Additional 9 hours of any approved engineering, science or other elective courses are also required.

A minimum of 192 quarter hours of credit is required for the degree.

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

The Department of Electrical Engineering is located in Clippinger Research Laboratory, a modern facility housing undergraduate, graduate, and research activities of the department. Electrical engineering addresses the wide application of electrical and electronic phenomena to real-world needs, from consumers to space exploration. It encompasses many diverse areas such as research, development, design, sales, and operation of electrical and electronic systems. Areas of specialization include such varied fields as circuit design, communications, computers and automata, control systems, electromagnetics, energy sources and systems, power transmission and distribution, electronics, and instrumentation. In addition to the above specialties, a unique program in avionics has been developed around specific applications of the preceding broad specialties to aircraft navigation and landing systems. Electrical engineering graduates hold numerous challenging positions in many nonelectrical industries such as chemical, nuclear, automotive, medical, textile, petroleum, and transportation, to name only a few, as well as positions in electronics, communications, power, control, and other electrical industries. The job functions performed by electrical engineering graduates include many diverse activities, such as research, development, design, production and manufacturing, marketing, operation, testing, sales, management, and consulting.

Following a freshman year which is essentially common to all engineering degree programs, the electrical engineering student is promptly introduced to digital computers, analog computers, and modern electronic instrumentation. The remainder of the sophomore year and the junior year provide a solid analytical foundation for all of the various electrical engineering specialties. The senior year provides an opportunity for the student to specialize in those areas he or she finds most interesting. Courses may be chosen from communications, power systems and energy conversion, network theory, electronics, avionics,

electromagnetic fields, computer systems, control systems, and others. For students seeking greater depth or breadth, electrical engineering offers programs leading to the MSEE and PhD.

Freshman

Fall

| | |
|------------------------------------|-----|
| ENT 100 Engr. & Tech. ¹ | 3 |
| ENT 180 Problem Solving | 3 |
| Chem 121 Intro. to Chem. | 4 |
| Elective ² | 4-5 |

Winter

| | |
|---|-----|
| Math 263A Analyt. Geom. & Calc. | 5 |
| Chem 122 Chem. of Solutions or other natural science ³ | 4 |
| EG 101 Engr. Graphics ⁴ | 3 |
| Elective ² | 3-5 |

Spring

| | |
|--|-----|
| Math 263B Analyt. Geom. & Calc. | 5 |
| Chem 123 Environ. Chem. or other natural science ³ | 4 |
| InCo 101 Fundamentals of Speech or InCo 103 Pub. Spkng. ⁴ | 3-4 |
| Elective ² | 3-5 |

Notes on freshman year:

1. ENT 100 may be taken any quarter of the freshman year.
2. Electives in the freshman year are normally taken in the humanities/social sciences area. Exceptions must be approved by a faculty advisor.
3. Alternatives to chemistry must be both in the same area. Approved areas are life-sciences (biology, zoology and botany) and earth sciences (geology) and should be chosen only after consultation with a faculty advisor.
4. There is no preferred order on EG 101 and InCo 101/103.

Sophomore

Fall

| | |
|---|---|
| Math 263C Analyt. Geom. & Calc. | 5 |
| Phys 251 Gen. Physics | 5 |
| EE 210 Circuit Analys. I | 4 |
| ET 240 Intro. to Dig. Comput. Solution of Engr. Prob. | 4 |

Winter

| | |
|--|---|
| Math 340 Diff. Equations | 5 |
| Phys 254 Gen. Physics for Elect. Engr. | 5 |
| EE 211 Circuit Analys. II | 4 |
| EE 221 Inst. and Comp. Lab. II | 3 |

Spring

| | |
|---------------------------------------|-----|
| EE 212 Circuit Analys. III | 4 |
| EE 222 Instru. & Comput. Lab. III | 3 |
| EE 232 Analyt. Found. of Elect. Engr. | 5 |
| Elective ⁴ | 3-5 |

Junior

Fall

| | |
|------------------------------------|-----|
| EE 301 Interim. Lab. I | 1 |
| EE 310 Linear Systems & Networks I | 4 |
| EE 330 Energy Conversion I | 4 |
| EE 340 Electronics I | 4 |
| Elective ⁵ | 3-4 |

Winter

| | |
|---------------------------------------|-----|
| EE 302 Interim. Lab. II | 1 |
| EE 321 Electromagnetics & Materials I | 4 |
| EE 331 Energy Conversion II | 4 |
| EE 341 Electronics II | 4 |
| Elective ⁵ | 3-4 |

Spring

| | |
|--------------------------|---|
| EE 303 Interim. Lab. III | 1 |
|--------------------------|---|

| | |
|--|-----|
| EE 312 Linear Systems & Networks II | 4 |
| EE 322 Electromagnetics & Materials II | 4 |
| EE 490T Distributed Circuits | 2 |
| Elective ⁵ | 4-6 |

Note on sophomore and junior years:

5. These elective spaces should be utilized to satisfy requirements CE 220, CE 222, ME 321 and Phys 316. Additional available time may be applied toward satisfaction of humanities/social sciences requirements.

Senior

Fall

| | |
|---------------------------------|-----|
| EE 401 Adv. Lab. I ⁶ | 1-3 |
| Technical Elective ⁷ | 9 |
| Elective ⁸ | 5-7 |

Winter

| | |
|----------------------------------|-----|
| EE 402 Adv. Lab. II ⁶ | 1-3 |
| Technical Elective ⁷ | 6 |
| Elective ⁸ | 8-9 |

Spring

| | |
|-----------------------------------|-----|
| EE 403 Adv. Lab. III ⁶ | 1-3 |
| Technical Elective ⁷ | 6 |
| Elective ⁸ | 8-9 |

Notes on senior year:

6. Total senior lab (EE 401, 402, 403) requirement is five hours, with a minimum of one hour in each quarter and three different areas.
7. Senior technical electives are normally 400-level EE courses, although a few alternates are acceptable on special programs with the approval of the faculty advisor. Total technical elective requirement is 21 hours minimum.
8. May be divided between humanities/social science electives (consult departmental office for acceptable courses) and free electives subject to these requirements:
 - a) humanities/social science hours total (over four years) is 22 hours minimum, with no fewer than eight hours in either area;
 - b) total program earned hours minimum is 192 hours.

BACHELOR OF SCIENCE IN INDUSTRIAL AND SYSTEMS ENGINEERING

Industrial and systems engineers obtain a broad technical background with special attention to productivity, costs, quality, and the human factor in production and other systems. They design and supervise installation of facilities for production of goods and services including the layout of buildings, machines, and equipment, taking into account such vital factors as ecology, energy conservation, safety, and health. They also design and supervise installation of computer systems with applications to production, marketing, banking, and health care. Industrial and systems engineers develop performance measures and standards for equipment, workers, and factories to achieve more effective utilization; and they translate technical designs of other fields of engineering and science into production or other practical applications.

Courses in the first two years of the program are similar to the curricula of other engi-

neering departments, and provide the necessary foundation in basic subjects upon which advanced engineering work depends. The last two years of work provide the professional level material, including computer-related instruction, necessary for the interdisciplinary activities that are required of the modern industrial or systems engineer.

Industrial and systems engineers follow careers in many fields: manufacturing, transportation, government; and for those interested in computers and information processing: banking, insurance, and hospitals. Many industrial and systems engineers move into management positions after a few years of experience. Salaries are excellent and jobs are plentiful. The U.S. Department of Labor statistics show that there will be on the average two job openings for every industrial engineer graduating, at least through 1985.

Freshman

Fall

| | |
|---------------------------------------|---|
| ENT 100 Engr. & Tech. | 3 |
| ENT 180 Problem Solving | 3 |
| Chem 121 Intro. to Chem. | 4 |
| OR | |
| Chem 141 Intro. to College Chem. | 5 |
| Electives* | |

Winter

| | |
|--------------------------------------|---|
| Math 263A Analyt. Geom. & Calc. | 5 |
| Chem 122 Chem. of Solutions | 4 |
| OR | |
| Chem 142 Chem. Energetics | 5 |
| InCo 103 Pub. Spkng. | 4 |
| Electives* | |

Spring

| | |
|--------------------------------------|---|
| Math 263B Analyt. Geom. & Calc. | 5 |
| Math 211 Elem. Linear Algebra | 5 |
| EG 101 Engr. Drawing | 3 |
| IndT 117 Engr. Metals | 3 |

Sophomore

Fall

| | |
|--|---|
| Math 263C Analyt. Geom. & Calc. | 5 |
| Phys 251 Gen. Physics | 5 |
| CE 220 Statics | 4 |
| ISE 231 Intro. to Indust. & Systems Engr. | 2 |

Winter

| | |
|---|---|
| Math 340 Diff. Equations | 5 |
| Phys 252 Gen. Physics | 5 |
| Acct 101 Managerial Acct. | 4 |
| ET 240 Intro. to Comput. Solutions | 4 |

Spring

| | |
|-----------------------------------|---|
| Phys 253 Gen. Physics | 5 |
| ISE 304 Appld. Engr. Stat. | 3 |
| CE 222 Strength of Materials | 4 |
| ISE 330 Engr. Economy | 3 |

Junior

Fall

| | |
|--|---|
| ISE 305 Engr. Stat. I | 3 |
| ISE 333 Work Design | 5 |
| CE 321 Dynamics | 4 |
| CE 223 Strength of Materials Lab. | 1 |
| Electives* | |

Winter

| | |
|--------------------------------------|---|
| ISE 306 Engr. Stat. II | 3 |
| ISE 415 Intro. to Systems Engr. | 3 |
| ISE 435 Quality Control | 3 |
| EE 313 Basic Elec. Engr. I | 3 |

| | |
|----------------------------|---|
| Eng 305 Tech. Wrting. | 4 |
| Electives* | |

Spring

| | |
|---------------------------------------|---|
| ISE 448 Human-Machine Systems | 3 |
| ChE 331 Prin. of Engr. Materials | 4 |
| ME 321 Intro. to Thermodynamics | 4 |
| EE 314 Basic Elec. Engr. II | 3 |
| Electives* | |

Senior

Fall

| | |
|----------------------------------|---|
| ISE 432 Inventory Control I | 3 |
| ISE 441 Oper. Research | 3 |
| ISE 445A Systems Design I | 3 |
| Electives* | |

Winter

| | |
|--------------------------------------|---|
| ISE 440A Indust. Plant Design I | 2 |
| ISE 433 Indust. Comput. Applic. | 5 |
| Electives* | |

Spring

| | |
|---------------------------------------|---|
| ISE 445B Systems Design II | 3 |
| ISE 440B Indust. Plant Design II | 3 |
| Electives* | |

University English composition requirements must be met. Any courses taken in fulfillment of these requirements can be counted as free electives as defined below.

*A minimum of 47 hours of electives is required including

- 26 hours in social sciences and humanities with at least eight hours in each area and at least one sequence of eight hours or more within a single department.
- 6 hours in industrial and systems engineering
- 3 hours in the physical or life sciences
- 3 hours in the engineering sciences
- 9 hours of electives may be freely chosen

Students with an interest in the life sciences should consult with their ISE advisors about substituting up to 10 hours of life science courses for required physical science courses.

Students may specialize in one of a wide variety of fields by the proper choice of electives. We urge students to come to their advisors or the department office for detailed information about electives.

Mining Systems Engineering Option

Students may earn a bachelor of science degree in industrial and systems engineering with a concentration in mining systems engineering. The program prepares engineers to enter the coal mining industry, an industry that has become extremely important to the U.S. as a result of the energy crisis. Mining systems engineers would be involved in production methods, planning for mining operations, project engineering, and mine management. Job opportunities are plentiful.

About one-half year of the program will consist of courses taken in other educational institutions with specialized mining programs. These courses are in mining fundamentals, mine ventilation, mine surveying, mine law and safety, mine material handling, and mine design. The balance of the program may be taken at Ohio University. Students who have attended mining technology programs are especially encouraged to apply.

Program requirements are listed below for students who complete a two-year mining technology degree. Other interested persons should write for more information to:

Mining Systems Engineering Program
Department of Industrial and Systems
Engineering
Ohio University, Athens, Ohio 45701

Mining Systems Option Two-plus-two Program with Two-Year Technical Institutes

First Two Years

The first two years of the mining systems engineering option can be completed in mining technology programs at such institutions as Rio Grande, Belmont Tech, West Virginia Tech. Students who enter these institutions planning to finish their degree work here should substitute academic mathematics and science courses for technical mathematics, science, and training courses.

Third Year

Fall

| | |
|--------------------------|---|
| CE 220 Statics | 4 |
| ET 240 Fortran | 4 |
| ISE 305 Statistics | 3 |
| Chem 141 Chemistry | 5 |
| Hum or Soc Science | 4 |

Winter

| | |
|--------------------------------|---|
| Math 340 Diff. Equations | 5 |
| CE 222 Strength of Matrl. | 4 |
| ISE 306 Statistics | 3 |
| ** Geology Elective | 4 |
| Hum or Soc Science | 3 |

Spring

| | |
|-----------------------------------|---|
| CE 321 Dynamics | 4 |
| ME 321 Thermodynamics | 4 |
| CE 350 Mech. of Mine Design | 4 |
| Math 211 Linear Algebra | 5 |

Fourth Year

Fall

| | |
|----------------------------|---|
| ISE 330 Engr. Econ. | 3 |
| ISE 333 Work Design | 5 |
| ISE 432 Inventory | 3 |
| ISE 441 Op. Research | 3 |
| ** Geology Elective | 4 |

Winter

| | |
|--------------------------------|--------|
| CE 340 Fluid Mech. | 5 |
| ISE 419 Explosives | 3 |
| ISE 433 Simulation | 5 |
| ChE XXX Fossil Fuels or | |
| ISE 429 Coal Preparation | 4 or 3 |

Spring

| | |
|-----------------------------------|---|
| ISE 450 Mine Systems | 3 |
| ISE 448 Human-Mach. Systems | 3 |
| Hum or Soc Science | 8 |
| Engr. Elective | 4 |

**Electives to be chosen from the following list

310 or 314, 315
330
350
353

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Mechanical engineering is concerned with (1) the economical and ecological conversion of energy from natural sources to provide power, heat, cooling and propulsion; (2) the design of all types of machines, engines, and vehicles; (3)

the processing of materials into useful products, and (4) the development of systems for using machines and resources. Professional areas include research, development, design, testing, production operation and maintenance, marketing and sales, and administration.

The curriculum provides the versatile academic preparation required to enter the profession and the fundamentals of a liberal education. Theoretical analysis, practicality, laboratory skills, and design synthesis are all important aspects of the program. Specialization is provided by elective courses during the senior year.

Students majoring in mechanical engineering as preparation for entry into other professions such as law, medicine, business, etc., should consult with the department chairman regarding schedule modification required to meet specific career objectives.

Outstanding high school students are invited to apply for admission to the Honors Tutorial Program in mechanical engineering. Please consult the *Honors Tutorial College* section of this catalog for more information.

Freshman

Fall

| | |
|---|---|
| Chem 141 Intro. College Chem. | 5 |
| ET 100 Engr. & Tech. | 3 |
| ET 180 Problem Solving | 3 |
| Freshman English Qualification ¹ | |

Winter

| | |
|---|---|
| Chem 142 Chem. Energetics | 5 |
| EG 101 Engr. Drawing | 3 |
| Hum. & Soc. Sci. Elec. | 3 |
| Math 263A Analyt. Geom. & Calc. | 5 |
| Hum. & Soc. Sci. Elec. ⁶ | 3 |

Spring

| | |
|--------------------------------------|---|
| Chem 123 Environ. Chemistry | 4 |
| Hum. & Soc. Sci. Elec. | 3 |
| InCo 103 Pub. Spkng. | 4 |
| Math 263B Analyt. Geom. & Calc. | 5 |

Sophomore

Fall

| | |
|--------------------------------------|---|
| CE 220 Statics | 4 |
| Phys 251 Gen. Physics | 5 |
| Math 263C Analyt. Geom. & Calc. | 5 |
| EG 121 Descr. Geom. | 3 |

Winter

| | |
|------------------------------------|---|
| CE 321 Dynamics | 4 |
| Phys 252 Gen. Physics | 5 |
| IndT 117 Metlwkng. for Engrs. | 3 |
| ET 240 Intro. to Comput. | 4 |
| Hum. & Soc. Sci. Elec. | 3 |

Spring

| | |
|--|---|
| CE 222 Strength of Materials | 4 |
| CE 223 Strength of Materials Lab. | 1 |
| Phys 253 Gen. Physics | 5 |
| Math 340 Diff. Equations | 5 |
| ME 489 Spec. Invest. (Elements & Systems Lab) | 2 |

Junior

Fall

| | |
|--|---|
| EE 313 Basic EE I | 3 |
| EE 304 Basic EE I Lab | 1 |
| ChE 331 Prin. of Engr. Materials | 4 |

| | |
|---------------------------------------|---|
| ME 321 Intro. to Thermodynamics | 4 |
| ME 301 Dynamics of Machines | 5 |

Winter

| | |
|---|---|
| EE 314 Basic EE II | 3 |
| EE 305 Basic EE II Lab | 1 |
| CE 340 Fluid Mechanics | 5 |
| ME 322 Intro. to Thermodynamics Lab | 2 |
| Eng 305 Technical Writing | 4 |
| ME 313 Metal Processing | 3 |

Spring

| | |
|-------------------------------------|---|
| Hum. & Soc. Sci. | 3 |
| ME 412 Heat Transfer | 5 |
| ME 328 Appld. Thermodynamics | 5 |
| ME 403 Machine Design I | 4 |
| ChE 418 ChE Lab. VI-Materials | 2 |

Senior*Fall*

| | |
|---|---|
| ME 401 Systems Analys. & Controls | 4 |
| ME 491 Mechanical Vibrations I | 3 |
| ME 417 ⁴ Design of Thermal Systems | 4 |
| ME Senior Lab ² | 3 |
| ME 480 ³ Symposium | 1 |

Winter

| | |
|---|---|
| ME 404 ⁴ Machine Design II | 4 |
| ME Symposium | 0 |
| ME Elective | 3 |
| Tech Elective | 4 |
| Hum. & Soc. Sci. Elec. | 8 |

Spring

| | |
|-----------------------------|---|
| EE 315 Basic EE III | 3 |
| ME Symposium | 0 |
| ME Elective | 3 |
| Tech Elective | 4 |
| Hum. & Soc. Sci. Elec. | 5 |

¹ All students must meet University Freshman and Junior English standards.

² To satisfy this requirement one may select: ME 430 - Applied Thermodynamics Lab (3); ME 418, 419, and 420 - Mechanical Engineering Experimentation (3); or ME 484 - Problems in Thermal Machinery (3).

³ Attendance at the ME Symposium is required of all ME students during their last three quarters on campus.

⁴ Students interested in mechanical design should enroll in ME 404 while those interested in thermal design should enroll in ME 417.

⁵ Technical Elective to be selected in consultation with your advisor.

⁶ 25 hours of humanities and social sciences with at least nine hours in each area are required. At least ten hours of these courses must be at or above the 300 level. The sequence must include a course in macroeconomics.

BACHELOR OF SCIENCE IN INDUSTRIAL TECHNOLOGY

This program is designed to prepare personnel for responsibility in production areas of the manufacturing industry. Typical positions available to industrial technology graduates relate to production supervision, process engineering, maintenance, and related areas. A minimum of 192 quarter hours, which includes all specified degree requirements, is necessary for graduation.

Courses in mathematics, sciences, and data processing are included in order to build channels for communication with engineering personnel. Management oriented courses are provided to assist in developing understanding of the industrial environment. Special emphasis is placed upon procurement of technical knowledge related to drafting, electronic and fluid power control, common materials, and the

techniques available for forming, machining, and joining the materials of industry.

Alternate fields of specialization are available according to the selection of restricted electives. An optional plan, featuring industrial work during the college career, is available under the program of cooperative work-study established with several companies.

Degree Requirements

1. Required Technology Courses

| | |
|------------------------------------|----------|
| | 57 hours |
| INDT 115 Metal Fabrication | 4 |
| INDT 216 Metal Machining | 4 |
| INDT 220 Small Engines | 3 |
| INDT 244 Graphic Proc. | 3 |
| INDT 250 Wood Indust. | 3 |
| INDT 260 Line Supervision | 3 |
| INDT 270 Rpt. Wrting. | 3 |
| INDT 308 Plastics | 3 |
| INDT 310 Metal Casting | 3 |
| INDT 320 Hydraulic Controls | 3 |
| INDT 332 Electronics | 5 |
| INDT 333 Semi-Conductors | 3 |
| INDT 341 Proc. Photo. | 3 |
| INDT 347 Plastics Proc. | 3 |
| INDT 362 Product Manufacture | 5 |
| INDT 390 Materials | 3 |
| INDT 421 Power Transmission | 3 |

2. Technology Electives

20 hours
Selected from available offerings in the departments of Industrial Technology and Engineering Graphics. (Excluded are courses in crafts and driver education.)

3. Mathematics

11 hours
Including trigonometry, calculus, and statistics.

4. Physics and Chemistry

18 hours
Including associated laboratory activity.

5. Related Requirements

| | |
|---------------------------------------|----------|
| | 35 hours |
| EG 101 Engr. Drawing | 3 |
| EG 102 Engr. Drawing | 3 |
| Psy 101 Gen. Psych. | 5 |
| InCo 101 Fundamentals of Speech | 3 |
| Acct 101 Managerial | 4 |
| Econ 101 Prin. | 4 |
| Mgt 200 Mgt. | 4 |
| Mkt 301 Marketing Principles | 4 |
| CS 201 Intro. to Computing | 5 |

6. Humanities and Social Sciences

12 hours
Minimum of eight hours from comparative arts, English literature, foreign language, or philosophy.

7. English Composition

10 hours

8. Associated Electives

20 hours
Concentration around a single core of business administration, engineering, or teaching certification as listed on the checklist provided upon enrollment in the program.

9. Unrestricted Electives

Or as necessary to achieve the 192-hour total required for graduation. 9 hours

First-Year Program

The following courses are suggested as being suitable for the first year. All will apply for full-credit regardless of program option selected at a later date. Each student should make an appointment at the department office to discuss the program before enrollment beyond the first year.

Fall

| | |
|---------------------------------------|-------|
| IndT 115 Metal Fabrication | 4 |
| Chem 121 Intro. to Chem. | 4 |
| EG 101 Engr. Drawing | 3 |
| Math 116 Analyt. Trig. | 2 |
| InCo 101 Fundamentals of Speech | 3 |
| | <hr/> |
| | 16 |

Winter

| | |
|--------------------------------|-------|
| IndT 216 Metal Machining | 4 |
| Chem/physics | 4 |
| Econ 101 Prin. | 4 |
| Math 163A Intro. to Calc. | 4 |
| | <hr/> |
| | 16 |

Spring

| | |
|--------------------------------|-------|
| IndT 220 Small Engines | 3 |
| Acct 101 Managerial Acct. | 5 |
| IndT 270 Rpt. Wrng. | 3 |
| Psy 101 Gen. Psych. | 5 |
| | <hr/> |
| | 16 |

Transfer Students

A program option is available for students who transfer credits earned while obtaining

their associate degrees in some field of engineering or technology from another approved school. Those accepted into this option are assigned junior standing and are furnished checksheets showing the remaining hours of upper-level requirements specified for attainment of the bachelor's degree.

TEACHING INDUSTRIAL ARTS

Students who desire to teach industrial arts normally enroll for the bachelor of science in education degree. Requirements for this degree are listed in the *College of Education* section of this catalog.

A teaching option is provided under the industrial technology program through utilization of both associated and unrestricted electives to satisfy requirements for certification. Students interested in this option should declare their intent no later than the first quarter of the junior year in order that exact requirements can be determined and scheduled prior to graduation.

TEACHING DRIVER EDUCATION

Specialized courses in driver and safety education, as required for teacher certification, are provided by the Department of Industrial Technology. Those wishing to obtain this certification should check at the College of Education to learn the specific requirements for their programs.

The College of Fine Arts

Henry H. Lin, *Dean*

James H. Conover, *Associate Dean*

Barbara F. Mantel, *Assistant to the Dean*

The College of Fine Arts includes the School of Art, the School of Dance, the School of Music, the School of Theater, the Department of Comparative Arts, and the Department of Film. A broad, cultural education in the fine arts is offered, as well as specialized training in the following areas: graphic design, art history, art education, ceramics, painting, photography, printmaking, sculpture; applied music, music education, music history and literature, music theory and composition, music therapy; acting, production design, playwrighting, theater education, and children's drama.

Admission Requirements

In addition to general acceptance for admission to Ohio University, students transferring from other colleges and universities are required to audition, submit a portfolio or meet other requirements prior to final acceptance as majors in the College of Fine Arts. Applicants are advised to write the director of the particular program in which they are interested for detailed information.

Ohio University students requesting admission into major programs of the college may also be required to meet the above criteria, and should consult the appropriate director prior to arranging for transfer.

A high school applicant to Ohio University who wishes to pursue a degree program in the College of Fine Arts may apply for direct entry into the college. The applicant is strongly urged to audition if he or she desires direct entry into programs in the School of Dance, School of Music, or School of Theater. Students requesting direct entry who are not screened in this manner will be accepted into their majors on a provisional basis only. Final acceptance into a major program will require an audition or portfolio review.

Students who are uncertain about their choice of major are encouraged to delay their entry into the College of Fine Arts until they have been in attendance at the University for at least one quarter and have taken some courses in the area of primary interest.

Degrees and General Requirements

The bachelor of fine arts degree is granted upon the completion of a program in the School of Art, the School of Dance, or the School of Theater. The School of Music grants the bachelor of music degree. These degrees fulfill four functions: to provide the student with specialized training in one of the fine arts; to provide a firm foundation for professional achievement; to provide a cultural background through a study of the relationship of all the arts; and to prepare the student, as far as possible, to become a responsible member of society. To these ends, the programs have been kept flexible to meet individual needs.

Candidates for most degree programs in the College of Fine Arts must complete a minimum of 192 quarter hours with a total point-hour ratio of at least 2.0 (C). The minimum number of quarter hours for some degree programs is higher, varying according to the academic program involved.

The work of each student in the College of Fine Arts and its various schools will be reviewed no less than once a year by the faculty. When appropriate, the student will be notified of the faculty's assessment of his or her program and use of talent. In cases of warning or denial of further registration as a degree candidate in a specific program, the student will receive a written notice. In the event of denial, the student is still free, subject to University regulations, to change to another degree objective offered by the College of Fine Arts. If

preferred, the student may apply for transfer to another academic division of the University, and subject to regulations, continue to register for coursework in the College of Fine Arts on an elective basis.

Further, a student with outstanding qualifications may request from his or her advisor consideration for acceleration by the waiver of certain required courses.

Institute of Visual Communication

The School of Art in cooperation with the School of Journalism in the College of Communication offers a visual communication degree program with sequences in picture editing, photo communication, photo illustration, multi-media, educational media, performing arts communication, medical illustration, and electronic visual communication. Students can earn either a bachelor of fine arts or a bachelor of science in journalism.

For details contact the dean of the College of Fine Arts, Trisolini Gallery, or the dean of the College of Communication, RTV-Communication Building.

Advising

Each school in the College of Fine Arts maintains a system of academic advising for its majors, with assigned members of the faculty to serve in such capacity. The advisor keeps a current academic record for each student under his or her supervision, and is available for counseling and assisting the student in planning courses, making sure that all requirements for the major are met. Deviations from the normal course requirements, including waivers, must be approved in writing by the advisor. In some cases, additional approval by a faculty committee is required. Students are urged to meet with their advisors regularly, especially prior to registration, to ascertain that they are following an approved course of study. Students may check with the directors of their schools to learn the names of their advisors.

In any case, each student should understand that he or she alone has the ultimate responsibility for making certain that all academic requirements are met for graduation.

Dual Majors

In some cases, a student may wish to pursue a major in two related fields simultaneously, earning a dual major. All course requirements in each major must be met. Some courses, including electives, may be considered as satisfying a requirement in both majors, but the credit hours for each course will be tallied only once. So long as curriculum requirements are met for each major, additional credit hours are not required.

Although students may take minors offered elsewhere in the University, formal minors are not offered by the college.

Pass/Fail Option

Students may take a limited number of courses outside their majors on a pass/fail basis. A list of courses excluded from this option is maintained in the office of the dean.

Scholarships and Awards

There are a limited number of scholarships and awards of varying amounts available to majors in the College of Fine Arts. Some awards are renewable; others are granted on a one-time basis, renewable only at the discretion of the school involved. In all cases, technical performance is as important as academic achievement. Interested students should contact the director of the appropriate school.

SCHOOL OF ART

Erik Forrest, *Director*

The mission of the School of Art at Ohio University is to foster creativity and to make the understanding and practice of the visual arts the basis for its curricula and programming. Students undertake programs of study appropriate to their professional goals and to contemporary orientations in both studio and critico-historical studies. The integrity and potentials of the individual student are given the utmost consideration, and individualized instruction is made congruent with the direction in which the student develops.

The freshman program is designed to familiarize students with basic art concepts and the structure of form. During the sophomore year studio courses emphasize media relevant to the student's major interest. At the end of the sophomore year areas require a portfolio review. At this point each student, together with his or her advisor, will determine individually the course of study he or she will follow for the remaining two years. Thus the freshman and sophomore years constitute a broad program and the junior and senior years a more intensive plan.

The B.F.A. degree in the School of Art requires a minimum of 192 quarter hours. It is offered in art education with teacher certification; art history; photography; studio arts; the studio majors of ceramics, graphic design, painting, printmaking, and sculpture.

Studio majors, broad requirements: studio major 45 hrs.; studio electives 45 hrs.; English 10 hrs.; humanities 9 hrs.; directed electives 26 hrs.; free electives 37 hrs.; ART 100 3 hrs.; art history 17 hrs.

Admission to all the studio majors and to art education is made through a portfolio review, held at the end of the sophomore year. Following a normal course of study, as outlined below, students will have between 30 and 40 hours of

studio courses from which to select a portfolio. Studio arts majors must include, in their portfolios, a form briefly outlining their projected programs. Photography requires a portfolio to be submitted for permission to enroll in Art 295, Intermediate Photography. Prior to such acceptance into specific majors, all students are designated art premajors, and should use major code #5125 to indicate their majors.

Students are urged to consult periodically with an advisor. The school advisor's office is in Seigfred 528; faculty members serve as advisors. Art majors may review their own records in Seigfred 528.

Students transferring fewer than 40 quarter hours of art studio courses from another college or university may submit portfolios for admission to their major area upon completion of that number of hours. Students transferring 40 quarter hours, or more, of art studio courses from another institution should arrange to submit a portfolio to the faculty of the major, for admission to the major. All art students admitted to Ohio University are considered art premajors (major code #5125) until the portfolio review has been passed successfully.

Studio Major

The major codes are as follows: ceramics, #5127; graphic design, #6321; painting, #5124; printmaking, #5128; sculpture, #5126.

| Freshman | | |
|--------------------|--------------------|-----------------------|
| Art 101.....4 | Art 102.....4 | Art 128.....4 |
| Art 100.....3 | English.....5 | Intro to studio.....4 |
| English.....5 | Humanities.....3 | Humanities.....3 |
| Humanities.....3 | Electives.....5 | Electives.....5 |
| Sophomore | | |
| AH 211.....3 | AH 212.....3 | AH 213.....3 |
| Studio major...4 | Studio major...4 | Studio major...4 |
| Studio elect...4 | Studio elect...4 | Studio elect...4 |
| Electives...4-7 | Electives...4-7 | Electives...4-7 |
| Junior | | |
| AH 300-level...4 | AH 300-level...4 | AH 300-level...4 |
| Studio major...5 | Studio major...5 | Studio major...5 |
| Studio elect...4-5 | Studio elect...4-5 | Studio elect...4-5 |
| Electives...3-5 | Electives...3-5 | Electives...3-5 |
| Senior | | |
| Studio major...5 | Studio major...5 | Studio major...5 |
| Studio elect...5-8 | Electives...11-13 | Practicum...3-3 |
| Electives...6-8 | | Electives...8-10 |

Studio Arts Major (Major Code #5118)

| Freshman | | |
|------------------|-------------------|-----------------------|
| Art Studio.....4 | Art Studio.....4 | Art Studio.....4 |
| Art 100.....3 | Electives.....5-6 | Intro to Studio.....4 |
| Humanities.....3 | Humanities.....3 | Humanities.....3 |
| English.....5 | English.....5 | Electives.....5-7 |
| Sophomore | | |
| AH 211.....3 | AH 212.....3 | AH 213.....3 |
| Studio elect...4 | Studio elect...4 | Studio elect...4 |
| Studio elect...4 | Studio elect...4 | Studio elect...4 |
| Electives...5-7 | Electives...5-7 | Electives...5-7 |

| Junior | | |
|------------------|------------------|------------------|
| AH (300).....4 | AH (300).....4 | AH (300).....4 |
| Studio elect...4 | Studio elect...4 | Studio elect...4 |
| Studio elect...4 | Studio elect...4 | Studio elect...4 |
| Electives...4-6 | Electives...4-6 | Electives...4-6 |

| Senior | | |
|------------------|------------------|------------------|
| Studio elect...4 | Studio elect...4 | Studio elect...4 |
| Studio elect...4 | Studio elect...5 | Studio elect...5 |
| Electives...8-10 | Electives...7-9 | Electives...7-9 |

The required distribution of studio hours is as follows:

| | |
|--|------------|
| a. 100-level courses.....12 | |
| b. minimum of 4 courses in each of 3 areas (3 areas x 17 hours = 51 hrs.).....51 | |
| c. 300-400 level studio courses (in addition to any hours required in b. above).....15 | |
| d. studio electives.....12 | |
| | minimum 90 |

Art History Major (Major Code #5123)

Prospective art history majors should contact an art history faculty advisor to assure proper planning of a program. Attainment of a reading knowledge of at least one foreign language should be considered important. Elective hours should include art and non-art directed electives.

| Freshman | | |
|--------------------|--------------------|--------------------|
| Art 100.....3 | English.....5 | English.....5 |
| Art 128.....4 | Art 101.....4 | Art 102.....4 |
| Humanities.....3 | Humanities.....3 | Humanities.....3 |
| Non-art elect...5 | Non-art elect...4 | Non-art elect...4 |
| Sophomore | | |
| AH 211.....3 | AH 212.....3 | AH 213.....3 |
| Studio art.....4 | Studio art.....4 | Studio art.....4 |
| Non-art elect...10 | Non-art elect...10 | Non-art elect...10 |
| Junior | | |
| AH major.....4 | AH major.....4 | AH major.....4 |
| Studio art.....4 | Studio art.....4 | Studio art.....4 |
| Non-art elect...4 | Non-art elect...4 | Non-art elect...4 |
| Electives.....5 | Electives.....5 | Electives.....5 |
| Senior | | |
| AH major.....4 | AH major.....4 | AH major.....4 |
| AH major.....4 | Non-art elect...5 | Non-art elect...5 |
| Electives...7-10 | Electives...6-9 | Electives...6-9 |

Art Education Major (Major Code #5122)

A student interested in teaching art at the elementary or secondary level may follow a sequence of courses leading to a BFA degree in art education with certification. The program consists of the following blocks of courses: 1) professional education requirements for certification including student teaching (40 hrs.); 2) general education courses (45 hrs.); 3) studio art and art history; 4) electives. Teachers of art should be trained in a broad span of the visual arts, yet an in-depth experience is also important. To achieve expertise in an area, art education majors are required to complete five courses in one studio area.

It is important that the student start the sequence of courses leading to certification

early. Therefore, students are urged to meet with an advisor not later than the second quarter of the freshman year. Majors are required to submit portfolios of studio work at the end of the sophomore year. The portfolio review and an interview with each student is held the first week of May.

| Freshman | | |
|-----------------|-------------------|-------------------|
| Art 128 .....4 | Art 101 .....4 | Art 102 .....4 |
| Art 100 .....3 | Studio art .....4 | Studio art .....4 |
| English .....5 | InCo 103 .....4 | English .....5 |
| Elective .....3 | Psy 101 .....5 | Soc. Sci. ....5 |

| Sophomore | | |
|-------------------|-------------------|-------------------|
| AH 211 .....3 | AH 212 .....3 | AH 213 .....3 |
| Studio art .....4 | Studio art .....4 | Studio art .....4 |
| Science .....5 | Math .....5 | Art 254 .....4 |
| Elective .....3-5 | EdCI 275 .....5 | EdSe 250 .....3 |

| Junior | | |
|---------------------|---------------------|---------------------|
| AH/CA .....4 | AH/CA .....4 | AH/CA .....4 |
| Studio art .....4-5 | Studio art .....4-5 | Studio art .....4-5 |
| EdPI 360 .....5 | Studio art .....4-5 | Studio art .....4-5 |
| or 361 .....2 | Art 461 .....3 | Art 462 .....3 |
| EdSe 351 .....5 | | |

| Senior | | |
|--------------------|-----------------|-------------------|
| Studio art .....5 | EdPI 461 .....6 | Studio art .....5 |
| Studio art .....5 | EdPI 463 .....6 | Studio art .....5 |
| Electives .....5-8 | EdPI 465 .....3 | EdSe 480 .....3 |
| | | Elective .....4 |

See the *College of Education* section for general and professional requirements for teacher certification.

Graphic Design Major (Major code #6321)

The graphic design curriculum provides a course of study leading to the BFA in graphic design. The program is intended to prepare students to enter the graphic design profession and to provide a field of exploration for students in other areas of the University.

The professional program includes a minimum of 45 hours in design major courses and elective hours in studio art, journalism, communications and other areas of interest to the design student. At the end of the sophomore year a portfolio review is required. The professional program of study for the junior and senior years is determined through counseling. Senior major courses are individually oriented with provisions for independent study. The program concludes with the preparation of a portfolio and senior design exhibition.

| Freshman | | |
|-------------------|--------------------|--------------------|
| Art 128 .....4 | Art 101 .....4 | Art 102 .....4 |
| Art 100 .....3 | English .....5 | Intro to |
| Humanities .....3 | Humanities .....3 | studio .....4 |
| English .....5 | Electives .....5-6 | Humanities .....3 |
| | | Electives .....5-7 |

| Sophomore | | |
|---------------------|---------------------|---------------------|
| AH 211 .....3 | AH 212 .....3 | AH 213 .....3 |
| Studio major .....4 | Studio major .....4 | Studio major .....4 |
| Studio elect .....4 | Studio elect .....4 | Studio elect .....4 |
| Electives .....5-7 | Electives .....5-7 | Electives .....5-7 |

| Junior | | |
|-----------------------|-----------------------|-----------------------|
| AH 300-level .....4 | AH 300-level .....4 | AH 300-level .....4 |
| Studio major .....5 | Studio major .....5 | Studio major .....5 |
| Studio elect .....4-5 | Studio elect .....4-5 | Studio elect .....4-5 |
| Electives .....3-5 | Electives .....3-5 | Electives .....3-5 |

| Senior | | |
|---------------------|----------------------|---------------------|
| Studio major .....5 | Studio major .....5 | Studio major .....5 |
| Studio elect .....5 | Electives .....11-13 | Practicum .....3 |
| Electives .....6-8 | | Electives .....8-10 |

Photography Major (Major Code #5143)

Photography majors may concentrate in fine arts photography or in applied photography with emphasis on media and photojournalism. Students intending to major should take basic photography (Art 192) and submit a portfolio for admission to intermediate photography (Art 295). A portfolio review is held each quarter, prior to registration. A course of study, planned with an advisor, should include directed electives as well as the required courses outlined below.

| Freshman | | |
|-------------------|-------------------|-------------------|
| Art 100 .....3 | Art 101 .....4 | Art 102 .....4 |
| Art 191 .....4 | Art 192 .....4 | Humanities .....3 |
| English .....5 | English .....5 | Electives .....10 |
| Humanities .....3 | Humanities .....3 | |

| Sophomore | | |
|--------------------|--------------------|--------------------|
| AH 211 .....3 | AH 212 .....3 | AH 213 .....3 |
| AH 237 .....3 | AH 238 .....3 | AH 239 .....3 |
| Art 295 .....5 | Art 296 .....5 | Art 297 .....5 |
| Electives .....4-7 | Electives .....4-7 | Electives .....4-7 |

| Junior | | |
|-----------------------|-----------------------|-----------------------|
| Art 391 or 397 .....5 | Art 392 or 398 .....5 | Art 393 or 399 .....5 |
| Studio elect .....4 | Studio elect .....4 | Studio elect .....4 |
| AH 300 level .....4 | Electives .....7-9 | Electives .....7-9 |

| Senior | | |
|---------------------|---------------------|---------------------|
| Photo major .....5 | Photo major .....5 | Photo major .....5 |
| Studio elect .....5 | Studio elect .....5 | Studio elect .....5 |
| Electives .....5-8 | Electives .....5-8 | Practicum .....3 |
| | | Electives .....3-5 |

SCHOOL OF DANCE

Shirley Wimmer, *Director*

The School of Dance offers an undergraduate four-year major program leading to a bachelor of fine arts degree, which includes work in performance, choreography, the history and ethnology of dance and the teaching of dance. There are opportunities for production and experimentation with the Ohio University Dance Company, which tours the surrounding region. Additional experience is gained from workshops and programs interrelated with the other schools in the College of Fine Arts. Visiting artists in residence during the academic year have choreographed works for student performances.

All new students intending to major in dance, both freshmen and transfer students, are required to audition as part of the admission process. An appointment for an audition and information on proficiency requirements may be obtained by contacting the director of the School of Dance. Auditions which start in January should be scheduled well in advance.

There is a growing demand for qualified

graduates of dance major curricula to teach at all educational levels. Within the school, majors are encouraged to gain practical teaching experience by assisting in class instruction. The curriculum provides a foundation upon which the student may build a career as a performer, choreographer, scholar or teacher; it also prepares him or her for advanced professional studies.

Major in Dated Plan

| Freshman | |
|-----------------------------|----|
| Danc 101-102-103 | 21 |
| Danc 111 | 2 |
| Danc 170 | 4 |
| English | 15 |
| Electives* | 9 |
| Sophomore | |
| Danc 201-202-203 | 21 |
| Danc 212 | 3 |
| Danc 441 | 3 |
| Zool 301 | 6 |
| Electives* | 18 |
| Junior | |
| Danc 301-302-303 | 21 |
| Danc 351, 352 or 353 | 4 |
| Danc 440 | 2 |
| Danc 443 | 2 |
| Theater Arts (Acting) | 3 |
| Electives* | 19 |
| Senior | |
| Danc 401-402-403 | 21 |
| Danc 471 | 4 |
| Danc 480 | 2 |
| Electives* | 24 |

*Electives will include courses in the following fields: anthropology, history, language other than English, philosophy, psychology, studio art, art history, comparative arts, film, music performance, music history, theater history.

SCHOOL OF MUSIC

Clyde Thompson, *Director*

The curricula of the School of Music, culminating in the degree of bachelor of music, are designed to prepare students for careers in teaching, music therapy, or performance. The School of Music makes provision for individual study in all branches of vocal and instrumental music and offers a wide range of courses in the fields of theory or composition, music history and literature, music education, and music therapy. Opportunities are provided for individual participation in student recitals as well as for performing experience in the various organizations, such as the University Chorus, the University orchestras, the bands, Opera Workshop, and Jazz Ensemble, as well as many small chamber ensembles.

Students who specialize in music education may elect either instrumental or vocal emphases. Upon completion of the requirements of the music education program, which includes the requirements of the State Board of Education, the student receives the Ohio Special Certificate for teaching music.

Students in the College of Arts and Sci-

ences may major in one of two areas — music history and literature or music theory. The associate director of the School of Music should be consulted as the advisor of the curriculum.

All new students intending to major in music, both freshmen and transfer students, are expected to audition on their principal instruments or voice as part of the admission process. An appointment for an audition and information concerning proficiency requirements may be secured by contacting the director of the School of Music. Those students who are accepted but do not meet the required level of proficiency in their principal instruments may be placed in small classes with students of comparable ability until the required level of proficiency is reached.

A music theory placement examination is required of all new students. This examination is given each day during precollege counseling and on registration day at the beginning of each quarter. Specific times and locations for this examination may be obtained from the School of Music office.

The Ohio University School of Music is a member of the National Association of Schools of Music. The requirements for entrance and for graduation as set forth in this Ohio University Bulletin are in accordance with the standards set up by the association.

Each music major is required to enroll in Performance Laboratory (Mus 90) as well as elect an appropriate performing group consistent with his or her major (see School of Music Handbook) during each quarter of residency at the University.

The following course plans outline a practical sequence of required courses which should be of assistance to the student in planning his or her course of study.

Major in Piano

| Freshman | | |
|------------------|--------------------|--------------------|
| Eng | Elect | InCo 101 |
| Elect | Mus 102 | Elect |
| Mus 101 | Mus 341 | Mus 103 |
| Mus 341 | Perf group | Mus 341 |
| Perf group | Mus 90 | Perf group |
| Mus 90 | | Mus 90 |
| Sophomore | | |
| Mus 201 | Mus 202 | Mus 203 |
| Mus 204 | Mus 205 | Mus 206 |
| Mus 321 | Mus 322 | Mus 323 |
| Mus 341 | Mus 341 | Mus 341 |
| Perf group | Perf group | Perf group |
| Mus 90 | Mus 90 | Mus 90 |
| Junior | | |
| Mus 451 | Mus 451 | Mus 451 |
| Mus 341 | Theory elect | Theory elect |
| For Lang | Mus 341 | Mus 341 |
| Perf group | For Lang | For Lang |
| Mus 90 | Perf group | Perf group |
| Eng | Mus 90 | Mus 90 |
| | Mus 421C* | Mus 497 |
| | | Elect |
| Senior | | |
| For Lang** | For Lang** | For Lang** |
| Mus 452 | Mus 453 | Mus 454 |

| | | |
|-------------------|-------------------|-------------------|
| Mus 341 .....6 | Mus 341 .....6 | Mus 341 .....6 |
| Elect .....3 | Mus 421B .....3 | Elect .....3 |
| Perf group .....1 | Perf group .....1 | Perf group .....1 |
| Mus 90 .....0 | Mus 90 .....0 | Mus 90 .....0 |
| | | Mus 497 .....0 |

Minimum credit hours required for graduation: 192

*May be taken in the junior or senior year.

**One year of two foreign languages (French, German, or Italian) or two years of one language.

Major in Voice

| Freshman | | |
|-------------------|-------------------|-------------------|
| Ital 111 .....4 | Ital 112 .....4 | Ital 113 .....4 |
| Eng .....5 | Humanities | Humanities |
| Mus 101 .....4 | elect .....3 | elect .....3 |
| Mus 340 .....4 | Mus 102 .....4 | Mus 103 .....4 |
| Mus 341 .....4 | Mus 340 .....4 | Mus 340 .....4 |
| or 141 .....2 | Mus 341 .....4 | Mus 341 .....4 |
| Perf group .....1 | or 142 .....2 | or 143 .....2 |
| Mus 90 .....0 | Perf group .....1 | Perf group .....1 |
| | Mus 90 .....0 | Mus 90 .....0 |

| Sophomore | | |
|---------------------|---------------------|---------------------|
| Mus 201 .....3 | Mus 202 .....3 | Mus 203 .....3 |
| Mus 204 .....3 | Mus 205 .....3 | Mus 206 .....3 |
| Mus 340 .....4 | Mus 340 .....4 | Mus 340 .....4 |
| Mus 341 .....4 | Mus 341 .....4 | Mus 341 .....4 |
| or 241 .....2 | or 242 .....2 | or 243 .....2 |
| Perf group .....1-2 | Perf group .....1-2 | Perf group .....1-2 |
| Mus 90 .....0 | Mus 90 .....0 | Mus 90 .....0 |
| Ger 111 .....4 | Ger 112 .....4 | Ger 113 .....4 |

| Junior | | |
|---------------------|---------------------|---------------------|
| Mus 321 .....3 | Mus 322 .....3 | Mus 323 .....3 |
| Fr 111 .....4 | Fr 112 .....4 | Fr 113 .....4 |
| Theory/Mus Lit | Theory/Mus Lit | Eng .....5 |
| elect .....3 | elect .....3 | Mus 340 .....4 |
| Mus 340 .....4 | Mus 340 .....4 | Perf group .....1-4 |
| Perf group .....1-4 | Perf group .....1-4 | Mus 90 .....0 |
| Mus 90 .....0 | Mus 90 .....0 | Mus 497 .....0 |
| | | Mus 458B .....1 |

| Senior | | |
|---------------------|---------------------|---------------------|
| Mus 421A .....3 | Mus 459B .....2 | Elect .....8 |
| Mus 340 .....4 | Mus 421F .....3 | Mus 340 .....4 |
| Mus elect .....3 | Mus 340 .....4 | Mus elect .....3 |
| Perf group .....1-4 | Mus elect .....3 | Perf group .....1-4 |
| Mus 90 .....0 | Perf group .....1-4 | Mus 90 .....0 |
| Elect .....3 | Mus 90 .....0 | Mus 497 .....0 |
| Mus 455 .....3 | Mus 456 .....3 | Theory/Mus Lit |
| | | elect .....2-3 |

Minimum credit hours required for graduation: 194

Demonstration of piano proficiency is required.

Major in Organ

| Freshman | | |
|-------------------|-------------------|-------------------|
| Eng .....5 | Eng .....5 | InCo 101 .....3 |
| CA 117 .....3 | CA 118 .....3 | CA 119 .....3 |
| Mus 101 .....4 | Mus 102 .....4 | Mus 103 .....4 |
| Mus 343 .....4 | Mus 343 .....4 | Mus 343 .....4 |
| Perf group .....1 | Perf group .....1 | Perf group .....1 |
| Mus 90 .....0 | Mus 90 .....0 | Elect .....2 |
| | | Mus 90 .....0 |

| Sophomore | | |
|-------------------|-------------------|-------------------|
| Mus 201 .....3 | Mus 202 .....3 | Mus 203 .....3 |
| Mus 204 .....3 | Mus 205 .....3 | Mus 206 .....3 |
| Mus 321 .....3 | Mus 322 .....3 | Mus 323 .....3 |
| Mus 147 .....2 | Mus 148 .....2 | Mus 149 .....2 |
| Mus 343 .....4 | Mus 343 .....4 | Mus 343 .....4 |
| Perf group .....1 | Perf group .....1 | Perf group .....1 |
| Mus 90 .....0 | Mus 90 .....0 | Mus 90 .....0 |

| Junior | | |
|----------------|----------------|----------------|
| Mus 402 .....3 | Mus 403 .....3 | Mus 404 .....3 |
| Mus 455 .....3 | Mus 456 .....3 | Mus 457 .....3 |

| | | |
|-------------------|-------------------|-------------------|
| Mus 401 .....3 | Mus 343 .....4 | Mus 343 .....4 |
| Mus 343 .....4 | Perf group .....1 | Perf group .....1 |
| Perf group .....1 | Eng .....5 | Elect .....4 |
| Mus 90 .....0 | Mus 90 .....0 | Mus 90 .....0 |
| Mus 310 .....2 | Mus 311 .....2 | Mus 497 .....0 |
| | | Mus 312 .....2 |

Senior

| | | |
|-------------------|-------------------|-------------------|
| Mus 498 .....4 | Mus 498 .....4 | Mus 498 .....4 |
| Mus 421A .....3 | Mus 421E .....3 | Mus 421C .....3 |
| or D .....3 | Mus 343 .....5 | or F .....3 |
| Mus 343 .....5 | Mus Theory | Mus 343 .....5 |
| Mus Theory | elect .....3 | Mus Theory |
| elect .....3 | Perf group .....1 | elect .....3 |
| Perf group .....1 | Mus 90 .....0 | Perf group .....1 |
| Mus 90 .....0 | | Mus 90 .....0 |
| | | Mus 497 .....0 |

Minimum credit hours required for graduation: 197

Major in Orchestral Instruments

Strings, Woodwinds, Brass, or Percussion

| Freshman | | |
|------------------|------------------|------------------|
| Eng .....5 | Humanities | Humanities |
| Mus 101 .....4 | elect .....3 | elect .....3 |
| Maj Instr .....4 | Mus 102 .....4 | Mus 103 .....4 |
| Mus 341 .....4 | Maj Instr .....4 | Maj Instr .....4 |
| or 141 .....2 | Mus 341 .....4 | Mus 341 .....4 |
| Band/Orch .....2 | or 142 .....2 | or 143 .....2 |
| Mus 90 .....0 | Band/Orch .....2 | Band/Orch .....2 |
| Chamber | Mus 90 .....0 | Mus 90 .....0 |
| music* .....1 | Chamber | Chamber |
| | music* .....1 | music* .....1 |

| Sophomore | | |
|------------------|------------------|------------------|
| Mus 201 .....3 | Mus 202 .....3 | Mus 203 .....3 |
| Mus 204 .....3 | Mus 205 .....3 | Mus 206 .....3 |
| Mus 321 .....3 | Mus 322 .....3 | Mus 323 .....3 |
| Maj Instr .....4 | Maj Instr .....4 | Maj Instr .....4 |
| Mus 341 .....4 | Mus 341 .....4 | Mus 341 .....4 |
| or 241 .....2 | or 242 .....2 | or 243 .....2 |
| Band/Orch .....2 | Band/Orch .....2 | Band/Orch .....2 |
| Mus 90 .....0 | Mus 90 .....0 | Mus 90 .....0 |
| Chamber | Chamber | Chamber |
| music .....1 | music .....1 | music .....1 |

| Junior | | |
|------------------|------------------|------------------|
| Humanities | Humanities | Humanities |
| elect .....3 | elect .....3 | elect .....3 |
| Mus 455 .....3 | Mus 457 .....3 | Eng .....5 |
| Theory/Mus Lit | Theory/Mus Lit | Theory/Mus Lit |
| elect .....3 | elect .....3 | elect .....3 |
| Maj Instr .....4 | Maj Instr .....4 | Maj Instr .....4 |
| Band/Orch .....2 | Band/Orch .....2 | Band/Orch .....2 |
| Mus 90 .....0 | Mus 90 .....0 | Mus 90 .....0 |
| Chamber | Chamber | Chamber |
| music .....1 | music .....1 | music .....1 |
| | | Mus 497 .....0 |

| Senior | | |
|------------------|------------------|------------------|
| Elect .....4 | Elect .....4 | Elect .....4 |
| Maj Instr .....6 | Mus 458 .....6 | Maj Instr .....6 |
| Band/Orch .....2 | Maj Instr .....6 | Mus 459 .....2 |
| Mus 90 .....0 | Band/Orch .....2 | Band/Orch .....2 |
| Chamber | Mus 90 .....0 | Mus 90 .....0 |
| music .....1 | Chamber | Chamber |
| Mus 304 .....3 | music .....1 | music .....1 |
| | | Mus 497 .....0 |

Minimum credits required for graduation: 197

*12 quarters chamber music required for string majors; 9 quarters for other instrumentalists

Major in Theory or Composition

| Freshman | | |
|------------|------------|-----------------|
| Eng .....5 | Eng .....5 | InCo 101 .....3 |

| | | |
|------------------------|------------------------|------------------------|
| CA 117 .....3 | CA 118 .....3 | CA 119 .....3 |
| Mus 101 .....4 | Mus 102 .....4 | Mus 103 .....4 |
| Principal | Principal | Principal |
| Instr .....2 | Instr .....2 | Instr .....2 |
| Class Piano | Class Piano | Class Piano |
| (Sec Instr | (Sec Instr | (Sec Instr |
| 1) ¹ .....2 | 1) ¹ .....2 | 1) ¹ .....2 |
| Perf group .....1 | Perf group .....1 | Perf group .....1 |
| Mus 90 .....0 | Mus 90 .....0 | Mus 90 .....0 |

Sophomore

| | | |
|------------------------|------------------------|------------------------|
| Mus 201 .....3 | Mus 202 .....3 | Mus 203 .....3 |
| Mus 204 .....3 | Mus 205 .....3 | Mus 206 .....3 |
| Elect .....5 | Elect .....5 | Elect .....5 |
| Principal | Principal | Principal |
| Instr .....2 | Instr .....2 | Instr .....2 |
| Class Piano | Class Piano | Class Piano |
| (Sec Instr | (Sec Instr | (Sec Instr |
| 1) ¹ .....2 | 1) ¹ .....2 | 1) ¹ .....2 |
| Perf group .....1 | Perf group .....1 | Perf group .....1 |
| Mus 90 .....0 | Mus 90 .....0 | Mus 90 .....0 |

Junior

| | | |
|-----------------------------|-----------------------------|-----------------------------|
| Mus 321 .....3 | Mus 322 .....3 | Mus 323 .....3 |
| Mus 421 ² .....3 | Mus 421 ² .....3 | Mus 421 ² .....3 |
| Mus 407 ² .....3 | Mus 408 ² .....3 | Mus 312 .....2 |
| Mus 310 .....2 | Mus 311 .....2 | Elect .....5 |
| Mus 413 .....2 | Eng .....5 | Principal |
| Principal | Principal | Instr .....2 |
| Instr .....2 | Instr .....2 | Perf group .....1 |
| Perf group .....1 | Perf group .....1 | Mus 90 .....0 |
| Mus 90 .....0 | Mus 90 .....0 | |

Senior

| | | |
|-----------------------------|-----------------------------|-----------------------------|
| Mus 304 .....3 | Mus 305 .....3 | Mus 306 .....3 |
| Mus 401 .....3 | Mus 403 ² .....3 | Mus 404 ² .....3 |
| Mus 402 ² .....3 | Mus 498 ³ .....2 | Mus 498 ³ .....2 |
| Mus 498 ³ .....2 | Mus 411 ⁴ .....2 | Mus 412 ⁴ .....2 |
| Mus 410 ⁴ .....2 | Elect .....6 | Elect .....6 |
| Elect .....4 | Perf group .....1 | Perf group .....1 |
| Perf group .....1 | Mus 90 .....0 | Mus 90 .....0 |
| Mus 90 .....0 | | |

Minimum credit hours required for graduation: 194

¹If piano is the principal instrument, the secondary instrumental requirement may be satisfied by one of the following methods:

a. By taking applied lessons on an instrument other than piano for 6 quarters (1 hr per quarter).

b. By taking 3 quarters (2 hrs per quarter) of either String Methods & Materials 261, or Wind & Percussion Methods & Materials 263, or a combination of both.

²May be taken in junior or senior year.

³Required of theory majors.

⁴Required of composition majors.

Major in Music History and Literature

Freshman

| | | |
|-------------------|-------------------|-------------------|
| Eng .....5 | Eng .....5 | InCo .....3 |
| CA 117 .....3 | CA 118 .....3 | CA 119 .....3 |
| Mus 101 .....4 | Mus 102 .....4 | Mus 103 .....4 |
| App-Prin .....2 | App-Prin .....2 | App-Prin .....2 |
| App-Sec .....1 | App-Sec .....1 | App-Sec .....1 |
| Perf group .....1 | Perf group .....1 | Perf group .....1 |
| Mus 90 .....0 | Mus 90 .....0 | Mus 90 .....0 |
| | | Elect .....3 |

Sophomore

| | | |
|-------------------|-------------------|-------------------|
| Mus 201 .....3 | Mus 202 .....3 | Mus 203 .....3 |
| Mus 204 .....3 | Mus 205 .....3 | Mus 206 .....3 |
| Mus 321 .....3 | Mus 322 .....3 | Mus 323 .....3 |
| Elect .....3 | Elect .....3 | Elect .....3 |
| App-Prin .....2 | App-Prin .....2 | App-Prin .....2 |
| App-Sec .....1 | App-Sec .....1 | App-Sec .....1 |
| Perf group .....1 | Perf group .....1 | Perf group .....1 |
| Mus 90 .....0 | Mus 90 .....0 | Mus 90 .....0 |

Junior

| | | |
|-------------------|-------------------|-------------------|
| Theory elect ...3 | Theory elect ...3 | Theory elect ...3 |
| Mod Lang .....5 | Mod Lang .....5 | Mod Lang .....5 |
| Mus 421 .....3 | Mus 421 .....3 | Mus 421 .....3 |
| App-Prin .....2 | App-Prin .....2 | App-Prin .....2 |
| Eng .....5 | Hist Elect .....4 | Hist Elect .....4 |

| | | |
|-------------------|-------------------|-------------------|
| Perf group .....1 | Perf group .....1 | Perf group .....1 |
| Mus 90 .....0 | Mus 90 .....0 | Mus 90 .....0 |

Senior

| | | |
|-------------------|-------------------|-------------------|
| Mus 421 .....3 | Mus 421 .....3 | Mus 421 .....3 |
| CA .....3 | CA .....3 | CA .....3 |
| Mod Lang .....5 | Mod Lang .....5 | Mod Lang .....5 |
| App-Prin .....2 | App-Prin .....2 | App-Prin .....2 |
| Elect .....3 | Elect .....3 | Elect .....3 |
| Perf group .....1 | Perf group .....1 | Perf group .....1 |
| Mus 90 .....0 | Mus 90 .....0 | Mus 90 .....0 |

Minimum credit hours required for graduation: 199

Demonstration of piano proficiency is required.

Major in Music Education

Instrumental Emphasis

Freshman

| | | |
|-------------------|-------------------|-------------------|
| Mus 101 .....4 | Mus 102 .....4 | Mus 103 .....4 |
| App-Prin .....2 | App-Prin .....2 | App-Prin .....2 |
| App-Sec .....1-2 | App-Sec .....1-2 | App-Sec .....1-2 |
| Perf group ...1-2 | Perf group ...1-2 | Perf group ...1-2 |
| Mus 90 .....0 | Mus 90 .....0 | Mus 90 .....0 |
| Psy 101 .....5 | Eng .....5 | InCo 103 .....4 |
| Science .....4-5 | Math .....4-5 | Soc Sci .....4-5 |

Sophomore

| | | |
|-------------------|-------------------|-------------------|
| Mus 147 .....2 | Mus 148 .....2 | Mus 149 .....2 |
| Mus 201 .....3 | Mus 202 .....3 | Mus 203 .....3 |
| Mus 204 .....3 | Mus 205 .....3 | Mus 206 .....3 |
| App-Prin .....2 | App-Prin .....2 | App-Prin .....2 |
| App-Sec .....1-2 | App-Sec .....1-2 | App-Sec .....1-2 |
| Perf group ...1-2 | Perf group ...1-2 | Perf group ...1-2 |
| Mus 90 .....0 | Mus 90 .....0 | Mus 90 .....0 |
| EdCI 275/ | EdSe 250 .....4 | Mus 263 .....2 |
| Psy 275 .....5 | | |

Junior

| | | |
|------------------|-------------------|-------------------|
| Mus 261 .....2 | Mus 261 .....2 | Mus 261 .....2 |
| Mus 263 .....2 | Mus 263 .....2 | Mus 263 .....2 |
| Mus 321 .....3 | Mus 322 .....3 | Mus 323 .....3 |
| Mus 455 .....3 | Mus 457 .....3 | App-Prin .....2 |
| App-Prin .....2 | Perf group ...1-2 | Mus 90 .....0 |
| App-Sec .....1-2 | Mus 90 .....0 | Perf group ...1-2 |
| Mus 90 .....0 | App-Prin .....2 | Eng .....5 |
| EdPI 360 .....2 | EdSe 351 .....5 | |

Senior

| | | |
|-------------------|-------------------|-----------------|
| Mus 263 .....2 | Mus 263 .....2 | EdPI 461 .....6 |
| Mus 363 .....3 | App-Prin .....2 | EdPI 463 .....6 |
| Mus 304 .....3 | Perf group ...1-2 | EdPI 465 .....3 |
| Mus 469 .....4 | EdSe 480 .....3 | Mus 90 .....0 |
| App-Prin .....2 | Elect .....8-10 | |
| Perf group ...1-2 | Mus 90 .....0 | |
| Mus 90 .....0 | | |

Minimum credit hours required for graduation: 204.

Demonstration of piano proficiency is required. See the School of Music Handbook for a complete statement concerning requirements.

Ohio certification requires particular *minimums* in certain areas of general education. Though these minimums are included in the suggested plan, other requirements in general education are not included here. It will be necessary to consult a music education counselor at least once a year in order to assure completion of all certification requirements.

The above course plan is only a suggested sequence of study. It does not constitute a contract.

Vocal Emphasis

Freshman

| | | |
|-------------------|-------------------|-------------------|
| Mus 101 .....4 | Mus 102 .....4 | Mus 103 .....4 |
| App-Prin .....2 | App-Prin .....2 | App-Prin .....2 |
| App-Sec .....1-2 | App-Sec .....1-2 | App-Sec .....1-2 |
| Perf group ...1-2 | Perf group ...1-2 | Perf group ...1-2 |

| | | |
|------------------|---------------|------------------|
| Mus 90 .....0 | Mus 90 .....0 | Mus 90 .....0 |
| Psy 101 .....5 | Eng .....5 | InCo 103 .....4 |
| Science .....4-5 | Math .....4-5 | Soc Sci .....4-5 |

Sophomore

| | | |
|-------------------|-------------------|-------------------|
| Mus 201 .....3 | Mus 202 .....3 | Mus 203 .....3 |
| Mus 204 .....3 | Mus 205 .....3 | Mus 206 .....3 |
| App-Prin .....2 | App-Prin .....2 | App-Prin .....2 |
| App-Sec .....1-2 | App-Sec .....1-2 | App-Sec .....1-2 |
| Perf group ...1-2 | Perf group ...1-2 | Perf group ...1-2 |
| Mus 90 .....0 | Mus 90 .....0 | Mus 90 .....0 |
| EdC1 275/ | EdSe 250 .....4 | Elect .....4-5 |
| Psy 275 .....5 | Mus 263 .....2 | Mus 263 .....2 |
| Mus 263 .....2 | | |

Junior

| | | |
|-------------------|-------------------|-------------------|
| Mus 321 .....3 | Mus 322 .....3 | Mus 323 .....3 |
| Mus 455 .....3 | Mus 364 .....3 | Mus 365 .....3 |
| EdPl 360 .....2 | Mus 366 .....3 | Mus 367 .....3 |
| App-Prin .....2 | Mus 456 .....3 | App-Prin .....2 |
| App-Sec .....1-2 | App-Prin .....2 | App-Sec .....1-2 |
| Perf group ...1-2 | App-Sec .....1-2 | Perf group ...1-2 |
| Mus 90 .....0 | Perf group ...1-2 | Mus 90 .....0 |
| EdSe 351 .....5 | Mus 90 .....0 | Eng .....5 |

Senior

| | | |
|-------------------|-------------------|-----------------|
| Mus 261 .....2 | Mus 261 .....2 | EdPl 461 .....6 |
| Mus 304 .....3 | EdSe 480 .....3 | EdPl 463 .....6 |
| Mus 468 .....3 | App-Prin .....2 | EdPl 465 .....3 |
| App-Prin .....2 | Perf group ...1-2 | Mus 90 .....0 |
| Perf group ...1-2 | Elect .....8-9 | |
| Elect .....3-4 | Mus 90 .....0 | |
| Mus 90 .....0 | | |

Minimum credit hours required for graduation: 201.

Keyboard principals in this program are required to take 1-3 hours of Mus 451 Accompanying during their junior or senior year. Demonstration of piano proficiency is required for both keyboard principals and vocal principals in the above program. See the School of Music Handbook for a complete statement concerning requirements.

Ohio certification requires particular minimums in certain areas of general education. Though these minimums are included in the suggested plan, other requirements in general education are not included here. It will be necessary to consult a music education counselor at least once each year to assure completion of all certification requirements.

The above course plan is only a suggested sequence of study. It does not constitute a contract.

Major in Music Therapy

Freshman

| | | |
|-------------------|-------------------|-------------------|
| Zool 101 .....5 | Psy 101 .....5 | Soc 101 .....5 |
| Mus 101 .....4 | Mus 102 .....4 | Mus 103 .....4 |
| Maj Instr .....2 | Maj Instr .....2 | Maj Instr .....2 |
| Class Piano | Class Piano | Class Piano |
| 141 .....2 | 142 .....2 | 143 .....2 |
| Perf group .....1 | Perf group .....1 | Perf group .....1 |
| Eng Comp .....5 | Zool 103 .....4 | Intro to |
| Mus 90 .....0 | Mus 90 .....0 | Mus Ther ...2 |
| | | Mus 90 .....0 |

Sophomore

| | | |
|-------------------|-------------------|-------------------|
| Mus 201 .....3 | Mus 202 .....3 | Mus 203 .....3 |
| Mus 204 .....3 | Mus 205 .....3 | Mus 481 .....3 |
| Class Voice | Class Voice | Class Voice |
| 147 .....2 | 148 .....2 | 149 .....2 |
| Maj Instr .....2 | Maj Instr .....2 | Maj Instr .....2 |
| Class Piano | Class Piano | Class Piano |
| 241 .....2 | 242 .....2 | 243 .....2 |
| Perf group ...1-2 | Perf group ...1-2 | Perf group ...1-2 |
| Mus 281 .....3 | SpEd elect ...3 | Speech, Sp Sci |
| Mus 90 .....0 | Mus 90 .....0 | elect .....3-4 |
| | | Mus 90 .....0 |

Junior

| | | |
|----------------|----------------|----------------|
| Mus 321 .....3 | Mus 322 .....3 | Mus 323 .....3 |
| Mus 381 .....3 | Mus 382 .....3 | Mus 383 .....3 |

| | | |
|----------------|------------------|-----------------|
| Mus 455 .....3 | Mus 366 .....3 | Mus 367 |
| Psy 332 .....5 | Dance elect .2-3 | or 468 .....3 |
| Class Piano | Class Piano | Class Piano |
| 359 .....2 | 360 .....2 | 361 .....2 |
| Mus 263 .....2 | Mus 263 .....2 | Mus 90 .....0 |
| Mus 90 .....0 | Mus elect .....1 | Eng Comp .....5 |
| | Mus 90 .....0 | |

Senior

| | | |
|------------------|----------------|-----------------|
| Mus 304 .....3 | Mus 482 .....3 | Mus 263A .....2 |
| Mus 261 .....2 | Psy or SpEd | Soc .....4 |
| Soc elect .....4 | elect .....5 | Mus 480 .....4 |
| Psy or SpEd | Mus 489 .....1 | Elect .....4 |
| elect .....5 | Mus 90 .....0 | Mus 489 .....1 |
| Elect .....2 | | Mus 90 .....0 |
| Mus 489 .....1 | | |
| Mus 90 .....0 | | |

Minimum credit hours required for graduation: 195.

The music therapy curriculum is designed to meet the degree requirements of the School of Music and the National Association for Music Therapy.

In addition to the regular coursework, the student must complete the required course Mus 480, Clinical Experience II (six-month internship) at an approved clinical training facility for the training of music therapists before graduation. Upon graduation, the student is eligible for listing with NAMT as a registered music therapist (RMT).

SCHOOL OF THEATER

Robert Winters, *Director*

Experience dictates that the best theater professional is an individual with a thorough knowledge of an area of specialization supported by a broad range of esthetic and humanistic understanding usually acquired through academic studies. Accepting the thesis that theater is ultimately an examination of the questions and answers of life, it follows that training in theater must include a study of the human condition as a prelude to specialization. Through careful individualized curriculum planning, course structuring, advising, and production activities the School of Theater helps the theater major develop a theoretical and practical foundation for specialization and entry to the profession.

The staff in the School of Theater feels that advising is a critical aspect of early training. Upon entering the School of Theater, the major is assigned an academic advisor who is responsible for aiding in the arrangement and selection of courses leading toward a curricular plan that serves the student's individual goals. The staff also recognizes that advising serves both a formal and an informal purpose and encourages majors to share their interests with faculty other than their immediate advisors and in particular the faculty most in line with their specific training goals.

All new students intending to major in theater are encouraged to attend an audition-interview session prior to enrollment. This is traditionally conducted in February. Any student wishing to apply for freshman undergraduate scholarships at the time of entrance must appear for the February session.

For more information write the Office of the Director, School of Theater.

Excellence in scholarship and performance is recognized by a number of annual awards, such as the Irma E. Voigt Memorial Award of Sigma Kappa to a senior woman for outstanding achievement in theater.

The School of Theater produces a minimum of six major productions during the regular school year and offers summer stock experience through the Ohio Valley Summer Theater in Athens and the Monomoy Theater in Chatham, Massachusetts on Cape Cod. Production activities in the School of Theater are considered part of the total curriculum planning of a major since production is, of course, ultimately the main purpose of theater training. Majors register each quarter for a production assignment, which is referred to as practicum. Students in the first year of training participate in productions through technical and management assignments while second-, third-, and fourth-year students participate in productions as performers, advanced technicians, and managerial assistants.

The curriculum is designed to fulfill the general education and theater requirements of the student while allowing flexibility for individual interests and specialization. A student's program is built around a basic core of courses that gives the student a theoretical understanding of each area of theater. After the core courses, the student selects a program(s) that suits his or her particular needs and interests. Through careful advising and intelligent use of all elective and general education course options, the students may broaden their education and explore other areas of interest. Students interested in an honors program in theater should apply to the Honors Tutorial College.

BASIC FOUR-YEAR BACHELOR OF FINE ARTS CURRICULUM

I. General Education

- A. English
 - 1. 100-series5 credits
 - 2. Three courses
above 2009-15 credits
- B. Directed Electives
The student must complete work in all of the following groups: 15 credit hours in one of them, 10 credit hours in a second, and eight credit hours in a third.

Group A: The Natural and Social Sciences

Accounting, anthropology, astronomy, biology, botany, business administration, chemistry, economics, education, geography, geology, hearing and speech sci-

ences, history, law, mathematics, physics, physical science, political science, psychology, sociology, zoology.

Group B: The Humanities: Languages and Literature

English (300-level and above), great books, interpersonal communication, modern languages, philosophy, radio-television.

Group C: The Arts: Theory and Practice

Art (including practice and technique of drawing, painting, photography, motion pictures, sculpture, etc.); architecture; comparative arts; dance (including theory, practice, and technique); health, physical education and recreation; journalism; music (including applied); motion pictures (historical and theoretical); photography.

Total 47-53 credits

II. Required Theater Credits

Freshman

| | |
|---|----|
| ThAr 101, 102, 103 Orientation to the Theater as a Profession | 3 |
| ThAr 110 Intro. to Performance | 4 |
| ThAr 130, 131, 132 Tech. Prod.: Scenery, Lighting, Costume | 9 |
| ThAr 170 The Theater Experience | 4 |
| ThAr 171 Intro. to Play Analys. | 3 |
| Practicums | 6 |
| Total Credits | 29 |

Sophomore

| | |
|---------------------------------------|----|
| ThAr 270, 271, 272 Theater Hist. | 9 |
| ThAr 210, 211 Acting | 8 |
| ThAr 237 Makeup | 1 |
| Practicums | 6 |
| Total Credits | 24 |

Junior and Senior

| | |
|------------------------------------|----|
| ThAr 320, 420 Directing | 8 |
| ThAr 470 Series Theater Hist. | 12 |
| Practicums | 12 |
| Total Credits | 32 |

Total Required Theater Credits 85

III. Theater Electives

To be selected from theater arts courses 212 through 466, no practicum or independent studies are permitted in this elective series28

IV. Free Electives

To be selected by the student. No more than 12 additional credits in theater practicum and eight additional credits in theater independent studies will be applied toward the degree26-32

Total Credits 192

AREAS OF SPECIALIZATION

The theater major's interest in an area of specialization is served through the choices made from a variety of theater electives. Specialized programs might be devised in acting, directing, playwriting, theater history, dramatic literature, production design including set or costume design and technical production, theater management, or any combination the student may develop with his or her advisor. This professionally oriented course of study leads in the School of Theater to the bachelor of fine arts degree.

The following four-year schedules are examples of how a theater major may combine theater electives with theater requirements in developing an emphasis in acting or production design. Similar scheduling selections may be constructed with an advisor to emphasize playwriting, directing, or management.

Acting

Freshman

| | | |
|------------------|------------------|------------------|
| ThAr 101 .....1 | ThAr 102 .....1 | ThAr 103 .....1 |
| ThAr 110 .....4 | ThAr 170 .....4 | ThAr 171 .....3 |
| ThAr 130 .....3 | ThAr 131 .....3 | ThAr 132 .....3 |
| Practicum .....2 | Practicum .....2 | Practicum .....2 |
| Gen Ed .....5 | Gen Ed .....6 | Gen Ed .....6 |

Sophomore

| | | |
|------------------|------------------|------------------|
| ThAr 270 .....3 | ThAr 271 .....3 | ThAr 272 .....3 |
| ThAr 210 .....4 | ThAr 211 .....4 | ThAr 212 .....4 |
| ThAr 216A .....2 | ThAr 216B .....2 | ThAr 216C .....2 |
| ThAr 217A .....2 | ThAr 217B .....2 | ThAr 217C .....2 |
| ThAr 237 .....1 | Practicum .....2 | Practicum .....2 |
| Practicum .....2 | Gen Ed .....5 | Gen Ed .....4 |
| Gen Ed .....4 | | |

Junior

| | | |
|------------------|------------------|------------------|
| ThAr 316A .....2 | ThAr 316B .....2 | ThAr 316C .....2 |
| ThAr 317A .....2 | ThAr 317B .....2 | ThAr 317C .....2 |
| ThAr 310 .....4 | ThAr 311 .....4 | ThAr 312 .....4 |
| ThAr 470 .....4 | ThAr 320 .....4 | ThAr 470 .....4 |
| series .....4 | Practicum .....2 | series .....4 |
| Practicum .....2 | Gen Ed .....4 | Practicum .....2 |
| Gen Ed .....4 | | ThAr 337 .....3 |

Senior

| | | |
|------------------|-------------------|------------------|
| ThAr 410 .....3 | ThAr 419 .....3 | ThAr 419 .....3 |
| ThAr 420 .....4 | ThAr 416 .....2 | TV Acting .....4 |
| Practicum .....2 | Practicum .....2 | ThAr 417 .....2 |
| ThAr 470 .....4 | Free elect .....6 | Practicum .....2 |
| series .....4 | | |

Production Design

Freshman

| | | |
|------------------|------------------|------------------|
| ThAr 101 .....1 | ThAr 102 .....1 | ThAr 103 .....1 |
| ThAr 170 .....4 | ThAr 110 .....4 | ThAr 171 .....3 |
| ThAr 130 .....3 | ThAr 131 .....3 | ThAr 132 .....3 |
| Practicum .....2 | Practicum .....2 | Practicum .....2 |
| Gen Ed .....7 | Gen Ed .....5 | Gen Ed .....6 |

Sophomore

| | | |
|------------------|------------------|------------------|
| ThAr 270 .....3 | ThAr 271 .....3 | ThAr 272 .....3 |
| ThAr 210 .....4 | ThAr 211 .....4 | ThAr 338 .....4 |
| ThAr 230 .....3 | ThAr 231 .....3 | ThAr 232 .....3 |
| Practicum .....2 | ThAr 237 .....1 | Practicum .....2 |
| Gen Ed .....6 | Practicum .....2 | Gen Ed .....4 |
| | Gen Ed .....5 | |

Junior

| | | |
|------------------|------------------|-------------------|
| ThAr 320 .....4 | ThAr 470 .....4 | ThAr 433 .....4 |
| ThAr 333 .....3 | series .....4 | ThAr 470 .....4 |
| Practicum .....2 | ThAr 334 .....4 | series .....4 |
| Gen Ed .....5 | ThAr 420 .....4 | ThAr 431 .....4 |
| | Practicum .....2 | Practicum .....2 |
| | Gen Ed .....4 | Free elect .....4 |

Senior

| | | |
|-------------------|------------------|-------------------|
| ThAr 430 .....4 | ThAr 470 .....4 | ThAr 439 .....4 |
| ThAr 438 .....4 | series .....4 | ThAr 434 .....4 |
| Practicum .....2 | ThAr 436 .....4 | Practicum .....2 |
| Free elect .....4 | ThAr 432 .....4 | Free elect .....3 |
| | Practicum .....2 | |

The College of Health and Human Services

Hilda Richards, *Dean*

Assistant Dean (to be named)

The College of Health and Human Services was established as Ohio University's ninth degree-granting college at the Board of Trustees meeting on January 27, 1979. The college is operational effective July 1, 1979, and comprises the following areas: the School of Hearing and Speech Sciences; the School of Health, Physical Education and Recreation; the School of Home Economics; the Nursery Child Care Center; the Center for Human Development; and the School of Nursing (slated to come in July 1, 1980).

The new College of Health and Human Services has as its mission, promoting an environment within which students may pursue undergraduate and graduate degrees in health and human services fields. Programs within the college combine academic classwork with practical field and clinical experiences providing students with basic knowledge, intellectual skills, and professional capabilities which enable the graduate to think and act positively and creatively in the face of ever-changing societal and human conditions.

The purposes of the College of Health and Human Services are:

1. To offer interdisciplinary programs designed for professionals with career objectives in the health and human services fields. The program will be oriented towards working with people with needs typically related to such areas as aging, day care, mental health, developmental disabilities, rehabilitation, nutrition, the family, environmental concerns, social welfare, justice, adolescence and youth, and the management of human and economic resources.

2. To promote interdisciplinary research and development activities to expand the knowledge base in the health and human services fields and to disseminate information useful to theory and practice.

3. To develop an effective outreach pro-

gram which contributes to the continuing education of professionals and enhances the health care and human services provided to the people in the region and the State of Ohio.

DEGREES AND REQUIREMENTS

The College of Health and Human Services offers curricula leading to a bachelor of science in home economics, health, physical education, recreational studies, or hearing and speech sciences, (in the schools of Home Economics; Health, Physical Education, and Recreation; and Hearing and Speech Sciences, respectively). The School of Nursing is scheduled to enter the college July 1, 1980 and will offer a bachelor of science in nursing to registered nurses only.

Graduate programs are available as follows:

School of Health, Physical Education and Recreation

Masters in sports administration

Master of science in physical education

Master of science in exercise physiology

School of Hearing and Speech Sciences

Master of Arts and Ph.D. in hearing and speech sciences

School of Home Economics

Master of science in home economics

All programs are described in detail in the *Ohio University Bulletin, Graduate Catalog*.

Each candidate for a degree in the College of Health and Human Services must satisfy the requirements established by the school in which he or she is enrolled. In addition to program requirements for completion of the

bachelor's degree, a student must check with the proposed school for possible entrance requirements which are separate from admission to the college. Those requirements are specified on the following pages.

ADVISING

A student entering the College of Health and Human Services is assigned an advisor by the school which he or she plans to enter. Advisors will be assigned on the basis of student interest. Faculty advisors assist in the preparation of a schedule each quarter so that the proper sequence of courses in the major and appropriately related courses are selected. The student, however, is responsible for seeing that all requirements for the degree are being met.

SCHOOL OF HEARING AND SPEECH SCIENCES

Donald J. Fucci, *Director*

The school grants BS, MA, and PhD degrees in hearing and speech sciences. On the bachelor's level students can major in public school therapy or in clinic therapy. Practicum training occurs in the campus Speech and Hearing Clinic, five regional clinics, public schools, mental retardation centers, and other clinic or educational settings. Consultation concerning all types of communicative disorders may be arranged with the coordinator of clinical services. Remedial training and diagnostic evaluation are provided without charge to University students. The audiological division evaluates all types of hearing problems from infancy to old age, including hearing aid evaluations. Nominal fees are charged for speech and hearing services to nonstudents. Research in therapy, acoustics, and other areas of communication is implemented by well-equipped laboratories with four soundproof rooms.

The programs in speech pathology and audiology are accredited by the American Board of Examiners in Speech Pathology and Audiology, the school is an affiliate member of the National Association of Hearing and Speech Agencies, and the Ohio University Speech and Hearing Clinic is accredited by the Professional Services Board of the American Speech and Hearing Association. Information about organizations, major programs, and requirements can be obtained from the school office in Lindley Hall.

MAJOR IN HEARING AND SPEECH SCIENCES

Freshman

Freshmen must select 27 quarter hours of coursework from four general education areas. At least one course must be selected from each area, and in the English area a specific course, Ling 270, must be one of the courses taken. The four general education areas include English, comparative arts and/or philosophy, social science, and science and/or mathematics. Certain Black Studies Institute courses may be used in comparative arts/philosophy and social science areas.

In addition to the 27 quarter hours of general education courses, Psy 101, HSS 107, HSS 108, and approximately eight hours of electives are required. Freshmen are encouraged to take Psy 121, Elementary Statistics, as part of the mathematics area.

Majors are assigned advisors. The program is complex and highly interrelated. Regardless of specialization plans, all HSS majors should apply during the third quarter of the freshman year to the College of Education for admission to teacher education (See *College of Education* section of this bulletin).

Sophomore

During the sophomore year students must pass a speech proficiency test administered in HSS 240 and pass the departmental phonetics proficiency test during either winter or spring quarter.

Fall

| | | |
|----------|-----------------------------------|---|
| HSS 209 | Phonetics | 4 |
| HSS 210 | Lang. Develop. | 5 |
| Psy 275 | Educ. Psych. | 5 |
| OR | | |
| EdCI 275 | Learning Proc. in Classroom | 5 |

Winter

| | | |
|---------|----------------------------|---|
| HSS 213 | Anatomy | 4 |
| HSS 250 | Speech Science | 4 |
| Psy 131 | Psych. of Adjustment | 4 |

Spring

| | | |
|----------|---|---|
| HSS 270 | Basic Audiology | 5 |
| HSS 222 | Diagnostics | 4 |
| Psy 376 | Psych. of Except. Children | 5 |
| OR | | |
| EdSp 271 | Intro. to Educ. of Except. Children & Youth | 3 |

Students will enroll for HSS 240 for one quarter sometime during the year. Regardless of specialty plans all HSS majors should apply in the third quarter of the sophomore year to the College of Education for junior standing (see *College of Education* section of this bulletin). Between the sophomore and junior years the requirements for EdPI 360/361 must be completed.

Junior

Majors cannot continue without successfully passing the department speech proficiency test. Students must decide during the

fall quarter whether or not they wish to apply for student teaching in their senior year. Student teaching is optional. Majors may also apply fall quarter for a clinical internship during their senior year, but should realize that undergraduate internships are frequently not approved due to placement limitations.

Fall

| | | |
|------------------|----------------------------------|---|
| HSS 315 | Stuttering | 3 |
| HSS 318 | Articulation Disorders | 4 |
| EdPI 360 | Field Exper. in Elem. or Second. | |
| Schools/EdPI 361 | Field Service in Educ. | 2 |

Winter

| | | |
|---------|---------------------------------|---|
| HSS 343 | School & Clinic. Programs | 2 |
| HSS 344 | Disorders of Lang. | 4 |

Spring

| | | |
|---------|-------------------------|---|
| HSS 345 | Social Dialects | 3 |
| HSS 319 | Voice & Resonance | 3 |

In addition, majors will enroll for HSS 341 for one quarter (designated by the clinic coordinator). Majors cannot continue beyond the junior year without passing the phonetics proficiency requirement.

Senior

Students are encouraged to student teach a full quarter during the senior year. Prerequisites to student teaching include: all HSS courses at the 100, 200, and 300 levels; HSS 442; passing the departmental speech proficiency test; and passing the phonetics proficiency test. Assignments are made in public schools in Cleveland and its suburbs and throughout the southeast quadrant of the state. Majors not student teaching may graduate but they will not meet the Public School Speech and Hearing Therapy Certification Requirements for the State of Ohio.

Student Teaching Quarter

| | | |
|----------|--|---|
| EdPI 461 | Stu. Tchng in Elem. Schools | 6 |
| EdPI 462 | Stu. Tchng in Elem. Schools | 3 |
| EdPI 465 | Stu. Tchng Seminar | 3 |
| OR | | |
| HSS 437 | Speech & Hear. Therapy in Pub. Schools | 2 |

Other Two Quarters

| | | |
|---|-------------------------------------|---|
| HSS 471 | Auditory Rehabilitation | 5 |
| HSS 479 | Basic Manual Comm. | 2 |
| HSS 424 | Neuropathology | 4 |
| EdSp 474 | Diagnosis & Remediation of Specific | |
| | Learn. Disorders | 4 |
| Select one course from Psy 310, Psy 307, Ling 350, EdEI 400, or Psy 490A-Z. | | |

Majors who were approved for a clinical internship will replace their student teaching quarter with HSS 442C for 1-15 hours. Students who participate in the clinical program will not be certified by the College of Education. Majors in neither of these alternatives will choose electives to meet the 192 hour graduation requirement.

SCHOOL OF HOME ECONOMICS

The School of Home Economics is committed to the search for, and the application of, concepts and competencies which enable the individual to meet basic needs and to improve the quality of life within the context of his or her natural and interpersonal environment. The educational program focuses on the problems of human welfare that are of compelling significance in contemporary society: nutrition and health, design and environmental analysis, consumer decision making, emotional stability, and the effects of technology and economic policy on such things as food, clothing, housing, and interpersonal relationships.

The curricula of the School of Home Economics have four specific purposes.

1. To offer programs which provide specialized preparation for professionals in: human development and family ecology, human nutrition and food sciences, human environment and design, and consumer service and education.
2. To offer courses for the University community which enable the individual to meet basic needs and to improve the quality of life.
3. To offer continuing education and community service in response to basic and social needs.
4. To promote and support research and discovery.

The program is both cultural and professional. It includes general education in communications, natural science, humanities, social science, and art as well as basic courses in all areas of home economics and professional courses in the major field and related areas.

The School of Home Economics offers 18 professional curricula leading to the BS in home economics degree. In addition, four curricula are offered for those following the two-year terminal program leading to the AA degree. Graduate work leading to either the MS degree or the MEd degree is also offered (see Graduate Catalog).

Special Facilities. The program in home economics provides for a variety of activities and experiences. One nursery child care center and one home management house are maintained on campus. Local high school home economics laboratories are available for student teaching. The School of Home Economics is approved by the State of Ohio Department of Education for training vocational home economics teachers. Off-campus activities have been developed with the Ohio State Cooperative Extension Service, the Health Department, business organizations, department stores, hospital dietary departments, and radio-television stations to give the students opportunities for field work in specialized areas. Affiliation with the Merrill-Palmer Institute in Detroit, Mich., provides a unique experience.

rience for the junior or senior desiring a quarter of specialized training in all areas related to human development.

Elective Courses and Special Programs. The School of Home Economics offers a group of courses that have no prerequisites and are open to any student in the University. Individual courses may be elected. Special seminars or workshops for in-service training are offered each summer.

Degree Requirements for All Home Economics Majors

Candidates for the degree of BS in home economics must fulfill the general requirements of the University, must complete a minimum of 192 hours, plus any physical education in excess of three hours. A point-hour ratio of 2.0 (C) is required on all hours attempted, but includes only final hours and grade points on repeated courses.

Opportunities for the professional home economist have never been greater in the business and professional world. Career opportunities are listed under each professional option. All majors in any field will take courses listed under requirements in general education, requirements in home economics basic courses, and requirements in his or her area of specialization. Courses in the major area of specialization and allied courses are listed under specialized requirements.

Requirements for Professional Curricula

Human Development and Family Ecology

Option A — Early Childhood Education: prepares students for teaching in nursery schools, day-care centers, Head Start programs, and schools for handicapped children.

General Education Requirements:

| | |
|---------------------------------------|---|
| Eng 172 Contemp. Wrng. Skills | 5 |
| Eng 315 Am. Lit. | 3 |
| InCo 103 Pub. Spkng. | 4 |
| Psy 101 Gen. Psych. | 5 |
| Soc 101 Intro. to Sociology | 5 |
| OR | |
| Soc 302 Prin. of Sociology | |
| Econ 101 Prin. of Econ. | 4 |
| OR | |
| Econ 301 Intro. to Econ. Analys. | |
| Zool 101 Prin. of Biol. | 5 |
| Bot 102 Plant Biol. | 5 |
| Zool 103 Human Biol. | 4 |

Home Economics Basic Requirements:

| | |
|--|---|
| HEG 101 Prof. Awareness | 2 |
| HEID 180 Furnishing Today's Home | 3 |
| HEFN 232 Infant & Child Nutrition | 4 |
| HECE 390 or 395 Family Consumer Econ. or Mgt. .. | 3 |

Specialized Requirements:

| | |
|--------------------------------------|---|
| HECF 160 Intro. to Child Devel. | 4 |
| HECF 361 Preschool Guidance | 4 |

| | |
|--|------|
| HECF 465 Parent Educ. | 4 |
| HECF 365 Infant Educ. | 4 |
| HECF 363 Creative Exper. with Young Children ... | 2-4 |
| HECF 364 Premath & Science Exper. with Young Children | 2-4 |
| HECF 299 Soph. Practi.-Prof. Assessment | 2-5 |
| HECF 399 Jr. Practi.-Prof. Devel. | 2-5 |
| HECF 400 Sr. Seminar | 1-3 |
| HECF 464 Early Childhood Practi. | 6-12 |
| HECF 462A Pluralistic Life Styles | 2 |
| HECF 462B Parenthood | 2 |
| HECF 462D Single Parent Family | 2 |
| HECF 463 Preschool Admin. | 5 |
| HECF 371 Family Devel. | 3 |
| HECF 467 Theories of Child Devel. | 4 |
| Art 360 Art for Elem. Educ. | 6 |
| EDAV 486 Intro. to Educ. Media | 4 |
| EDCI 275 or Psy 275 Learning Proc. in Classroom/ Educ. Psych. | 5 |
| EDGS 410 Human Relations | 3 |
| EDSP 271 Intro. to Educ. of Except. Children & Youth | 3 |
| EDSP 272 Intro. to Educ. of Mentally Retarded Children & Youth | 3 |
| EDSP 470 Classroom Mgt. with Problem Children ... | 3 |
| HPER 227C First Aid | 3 |
| HPER 485C Perceptual Motor Devel. in Children ... | 3 |
| HSS 309 Phonetics | 3 |
| HSS 310 Lang. Development | 5 |
| HSS 336 Speech & Hearing Disorders in Pub. School | 3-4 |
| Mus 262 Music for the Preschool Child | 3 |
| Psy 121 Elem. Stat. | 5 |
| Psy 304 Human Learning | 5 |
| Psy 332 Abnormal Psych. | 5 |
| Soc 223 Am. Sociology | 4 |
| OR | |
| Soc 309 Sociology of Appalachia | |

Option B — Child Development-Community Service: prepares student for graduate study in child development or for work with community agencies, children's hospitals, clinics, children's homes, and Head Start programs.

General Education Requirements:

| | |
|---|---|
| Eng 172 Contemp. Wrng. Skills | 5 |
| Eng 315 or 316 Am. Lit. or Engl. & Continental Lit. . | 3 |
| InCo 103 Pub. Spkng. | 4 |
| Soc 101 Intro. to Sociology | 5 |
| Econ 101 or 301 Prin. of Econ./Intro. to Econ. Analys. | 4 |
| Psy 101 Gen. Psych. | 5 |
| Zool 101 or Bot 101 Prin. of Biol. | 5 |
| Bot 102 Plant Biol. | 5 |
| Zool 103 Human Biol. | 4 |

Home Economics Basic Requirements:

| | |
|--|---|
| HEG 101 Prof. Awareness | 2 |
| HEID 180 Furnishing Today's Home | 3 |
| HEFN 128 Intro. to Nutrition | 3 |
| HECE 395 Home Mgt. | 3 |
| HECE 390 Family Consumer Econ. | 3 |

Specialized Requirements:

| | |
|---|-----|
| HECF 160 Intro. to Child. Devel. | 4 |
| HECF 370 Family Living | 3 |
| HECF 361 Preschool Guidance | 4 |
| HECF 299 Soph. Practi.-Prof. Assessment | 2-5 |
| HECF 371 Family Devel. | 3 |
| HECF 360 Human Sexuality | 3 |
| HECF 399 Jr. Practi.-Prof. Devel. | 2-5 |
| HECF 462A Pluralistic Life Styles | 2 |
| HECF 462B Parenthood | 2 |
| HECF 462C Middle Childhood | 2 |
| HECF 462D One Parent Family | 2 |
| HECF 462E Youth Identity Crisis | 2 |
| HECF 462F Aging Family | 2 |
| HECF 400 Sr. Seminar | 1-3 |

| | |
|--|----|
| HECE 396 Home Mgt. Lab | 4 |
| Anth 270 Basic Concepts of Anth. | 5 |
| EDGS 410 Human Relations | 3 |
| Geog 201 Man & His Phys. Environment | 4 |
| HPER 277C First Aid | 4 |
| LS 201 Library Resources | 3 |
| Mgt 200/300 Intro. to Mgt./Mgt. | 4 |
| Psy 121 Elem. Stat. | 5 |
| Psy 131 Psych. of Adjustment | 4 |
| Psy 333 Psych. of Personality | 5 |
| Soc 309 or 315 Soc. of Appalachia or Indiv. in Mass Society | 4 |
| Soc 361 or 363 Deviant Behavior or Juvenile Delinquency | 4 |
| SW 290 Social Security System | 4 |
| SW 391 Welfare System | 4 |
| SW 392 Social Services | 4 |
| SW 490C Special Studies | 10 |

Option C — Family Life – Community Service: prepares students for graduate study in family life or for work with youth programs, community recreation, settlement houses, and family service agencies.

General Education Requirements:

| | |
|--------------------------------------|---|
| Eng 172 Contemp. Wrtng. Skills | 5 |
| Eng 315 Am. Lit. | 3 |
| InCo 103 Pub. Spkng. | 4 |
| Soc 101 Intro. to Sociology | 5 |
| Econ 101 Prin. of Econ. | 4 |
| Psy 101 Gen. Psych. | 5 |
| Zool 101 Prin. of Biol. | 5 |
| Zool 103 Human Biol. | 4 |

Home Economics Basic Requirements:

| | |
|--|---|
| HEG 101 Prof. Awareness | 2 |
| HEID 180 Furnishing Today's Home | 3 |
| HEFN 128 Intro. to Nutrition | 4 |
| HECE 390 Family Consumer Econ. | 3 |
| HECE 395 Home Mgt. | 3 |

Specialized Requirements:

| | |
|--|------|
| HECF 160 Intro. to Child Devel. | 4 |
| HECF 370 Family Living | 3 |
| HECF 299 Soph. Practi.-Prof. Assessment | 2-5 |
| HECF 360 Human Sexuality | 3 |
| HECF 371 Family Devel. | 3 |
| HECF 465 Parent Educ. | 4 |
| HECF 399 Jr. Practi.-Prof. Devel. | 2-5 |
| HECF 462A Pluralistic Life Styles | 2 |
| HECF 462B Parenthood | 2 |
| HECF 462C Middle Childhood | 2 |
| HECF 462D One-Parent Family | 2 |
| HECF 462E Youth Identity Crisis | 2 |
| HECF 462F Aging Family | 2 |
| HECF 471 Family Life Educ. | 4 |
| HECF 400 Sr. Seminar | 1-3 |
| HECF 499 Field Exper. — Human Devel. & Family Ecology | 5-12 |
| Anth 270 Basic Concepts of Anth. | 5 |
| EDGS 410 Human Relations | 3 |
| Geog 201 Man & His Phys. Environment | 4 |
| HPER 277C First Aid | 4 |
| LS 210 Library Resources | 3 |
| Mgt 200 Intro. to Mgt. | 4 |
| Psy 121 Elem. Stat. | 5 |
| Psy 131 Psych. of Adjustment | 4 |
| Psy 333 Psych. of Personality | 5 |
| Psy 241 Behavioral Measurement | 5 |
| Psy 490D Psych. of Adulthood & Aging | 4 |
| Soc 315 Indiv. in Mass Society | 4 |
| Soc 361 Deviant Behavior | 4 |
| SW 290 Social Security System | 4 |
| SW 391 Welfare System | 4 |
| SW 392 Social Services | 4 |

Option D — Special Education/Early Childhood: prepares persons to meet State of

Ohio teacher certification requirements as teachers of the educable mentally retarded and as teachers of children with learning disabilities and/or behavior disorders, and to be teachers in preschool. At the present time, there is no teaching certificate for preschool; however, such certification is being discussed and may be enacted in the near future. The preschool aspect of this major meets what is currently being discussed as possible certification requirements. The concept of trained personnel working in special education with preschool children is one of the national trends in education.

The current program in preschool teaching is part of the School of Home Economics and the current program in special education is part of the School of Curriculum and Instruction, in the College of Education. This program would provide for each student to choose the school in which he or she wishes to enroll; therefore, a student could earn either a bachelor of science in home economics or a bachelor of science in education. Either way the student chooses, he or she would follow the same program and earn the same certificate. The following curriculum includes all requirements for this program.

General Education Requirements:

| | |
|---|-----|
| Social Sciences: 8 | |
| Econ 101 Prin. of Econ. | 4 |
| OR EcEd 346 Econ. in Curriculum | 3-5 |
| Soc 101 Intro. to Sociology | 5 |
| OR Soc 201 Social Problems | 4 |
| Natural Sciences: 9 | |
| Zool 101 Prin. of Biol. | 5 |
| OR Bot 101 Prin. of Biol. | 5 |
| Zool 103 Human Biol. | 4 |
| Psy 101 Gen. Psych. | 5 |
| InCo 101 Fundamentals of Speech | 3 |
| OR InCo 103 Pub. Spkng. | 4 |
| English | 5 |
| HSS 108 Intro. to Speech Disorders | 3 |
| OR HSS 336 Speech & Hearing Disorders in the Pub. Schools | 3-4 |
| Math 120 Elem. Topics in Math. | 5 |
| Music: 6 | |
| Mus 160 Music Fundamentals | 3 |
| Mus 161 or 262 Music for Classroom Teacher | 3 |
| Art 360 Art for Elem. Teachers | 6 |
| HPER: 7-9 | |
| HPER 202 Personal & Community Health OR HPER 227 First Aid | 4 |
| HPER 333 Theory of Adapted Activities OR HPER 250 Recreation Leadership | 3 |
| OR HPER 435 Recreation & Phys. Ed. for Mentally Retarded & Learning Disabled | 5 |

Related Professional Education:

| | |
|--|---|
| EdEl 310 Tchng. of Reading & Lang. Arts in Elem. School. | 6 |
| HECF 463 Preschool Admin. | 5 |
| EdEl 306 Kindergarten Educ. | 6 |
| EdGS 410 Human Relations | 3 |
| EdEl 321 Children's Lit. | 4 |
| EdAV 480 Intro. to Educ. Media | 4 |

Major:

| | |
|---|---|
| Special Education: 49 | |
| Block I | |
| EdSp 271 Intro. to Educ. of Except. Children & Youth | 3 |
| HECF 160 Intro. to Child. Devel. OR EdEl 200 Studies of Children | 4 |

| | |
|--|-----|
| Block II | |
| EdSp 272 Intro. to Educ. of Mentally Retarded Children & Youth | 3 |
| EdSp 373 Curriculum Devel. for Handicapped Children | 3 |
| EdSp 470 Classroom Mgt. with Problem Children | 3 |
| EdCI 275 Learning Proc. in Classroom OR Psy 275 Educ. Psych. | 5 |
| EdSp 490 Study of Special Educ. | 1-5 |
| Block III | |
| EdSp 374 Lang. Arts for Mentally Retarded | 4 |
| EdSp 375 Social Studies & Science for Mentally Retarded | 4 |
| EdSp 377 Voc. Educ. for Handicapped | 3 |
| EdSp 474 Diagnosis & Remediation of Specific Learning Disabilities | 4 |
| EdSp 490 Study of Special Educ. | 1-5 |
| Block IV | |
| EdSp 376 Math. for Mentally Retarded | 2 |
| EdSp 476 Tchng. Learning Disabled | 4 |
| EdSp 490 Study of Special Educ. | 1-5 |
| Early Childhood: 22 | |
| HECF 360 Human Sexuality | 3 |
| HECF 363 Creative Exper. with Preschool Children | 4 |
| HECF 371 Family Devel. | 3 |
| HECF 462B Parenthood | 2 |
| HECF 462D One-Parent Family | 2 |
| HEFN 232 Infant & Child Nutrition | 3 |
| HECF 361 Prin. of Preschool Guidance | 4 |

Professional Laboratory Experience:

| | |
|---|---|
| EdPl 360 or 361 Field Exper. in Elem. or Second. Schools or Field Service in Educ. | 2 |
|---|---|

Students must sign up with the director of the Nursery Child Care Center, at least one year in advance.

Option E — Elementary Education/Early Childhood: detailed under the School of Curriculum and Instruction in the *College of Education* section of the catalog. This is a dual program and a student can earn either a bachelor of science in home economics or a bachelor of science in education.

Human Nutrition and Food Science

Option A — Dietetics and Community Nutrition: meets American Dietetic Association academic requirements qualifying students for internship in general and community specializations — Plan IV.

General Education Requirements:

| | |
|--|-----|
| Eng 172 or equiv. Contemp. Wrting. Skills | 5 |
| InCo 101/103 Speech/Pub. Spkng. | 3-4 |
| Psy 101 Gen. Psych. | 5 |
| Soc 101 or 302 Intro. to Sociology/Prin. of Sociology .. | 5 |
| Econ 101/102 or 301/302 Prin. of Econ. or Intro. to Econ. Analys. | 8 |
| Chem 141, 142, 143 Intro./Chem. Energetics/Quant. Analys. or Chem 121, 122, 123 Intro./Solutions/Environ. | 15 |
| Math 113 or Equiv. Algebra | 5 |
| Art 101/102 2-Dimensional Design 3-Dimensional Design | 4 |
| Humanities, literature or language elective | 4 |

Home Economics Basic Requirements:

| | |
|--|---|
| HEG 101 Prof. Awareness | 2 |
| HEID 180 Furnishing Today's Home | 3 |

| | |
|---|-----|
| HECF 371 or HECF 160 Family Devel. or Intro. to Child Devel. | 3-4 |
| HECE 390 Family Consumer Econ. | 3 |

Specialized Requirements:

| | |
|--|------|
| HEFN 120 or equiv. Meal Mgt. | 3 |
| HEFN 222 Food Science | 4 |
| HEFN 128 Intro. to Nutrition | 4 |
| HEFN 299 Soph. Practi.-Prof. Assessment | 2-5 |
| HECE 391 Equipment | 4 |
| HEFN 334 Quantity Food Prod. | 4 |
| HEFN 399 Jr. Practi.-Prof. Devel. | 2-5 |
| HEFN 426 World View of Nutrition | 3 |
| HEFN 437 Food Service Systems I | 4 |
| HEFN 422 Experimental Foods | 4 |
| HEFN 428 Adv. Nutrition | 4 |
| HEFN 430 Therapeutic Nutrition | 4 |
| HEFN 438 Food Service Systems II | 4 |
| HEFN 429 Community Nutrition | 3 |
| HEFN 499 Field Exper. - Foods & Nutrition | 5-12 |
| Anth 270 or 370 Basic Concepts or Gen. Anth. | 5 |
| Acct 101 Managerial Acct. | 4 |
| Chem 301, 302 Organic Chem. | 6 |
| CS 150 Comput. Science-Survey | 4 |
| EdCI 275/Psy 275 Learning Proc. in Classroom/Educ. Psych. | 5 |
| Mgt 300 Intro. | 4 |
| Mgt 420 Admin. of Personnel | 4 |
| Micr 211 and 212 or 411 Microbiology | 6 |
| Psy 121 Elem. Stat. for Behavioral Sciences | 4 |
| Zool 345 Human Physiology | 4 |
| Zool 463 Cell Chem. | 4 |

Option B — Food Service Management: prepares students for careers in management and supervision in hotels, motels, restaurants, public schools, residence halls, and industry.

General Education Requirements:

| | |
|---|-----|
| Eng 172 or Equivalent Contemp. Wrting. Skills | 5 |
| InCo 101/103 Speech/Pub. Spkng. | 3-4 |
| Psy 101 Gen. Psych. | 5 |
| Soc 101/302 Intro. to Sociology/Prin. of Sociology ... | 5 |
| Econ 101/301, 102/302 Prin. of Econ./Intro. to Econ. Analys. | 8 |
| Chem 121, 122, 123 Intro./Solutions/Environmental .. | 12 |
| Math 113 Algebra | 5 |
| Art 101/102 2-Dimensional Design or 3-Dimensional Design | 4 |
| Humanities, literature or language elective | 4 |

Home Economics Basic Requirements:

| | |
|---|-----|
| HEG 101 Prof. Awareness | 2-4 |
| HECF 160/371 Child Devel. or Family Devel. | 3-4 |
| HEID 180 Furnishing Today's Home | 3 |
| HECE 390 Family Consumer Econ. | 3 |

Specialized Requirements:

| | |
|--|------|
| HEFN 120 Meal Mgt. | 3 |
| HEFN 128 Intro. to Nutrition | 4 |
| HEFN 222 Food Science Prin. | 4 |
| HEFN 299 Soph. Practi.: Prof. Assessment | 2-5 |
| HEFN 334 Quantity Food Production | 4 |
| HEFN 399 Jr. Practi.: Prof. Devel. | 2-5 |
| HEFN 400 Sr. Seminar | 1-3 |
| HEFN 422 Experimental Foods | 4 |
| HEFN 437 Food Service Systems I | 4 |
| HEFN 438 Food Service Systems II | 4 |
| HEFN 499 Field Exper.-Foods & Nutrition | 5-12 |
| HECE 391 Equipment | 4 |
| HEFC 315 Elem. Textiles | 4 |
| Acct 101, 102 Managerial | 8 |
| BusL 255 Law & Society | 4 |
| CS 150 Computer Science-Survey | 3 |
| Jour 250 Advert. Prin. | 5 |
| Mgt 300 Intro. | 4 |
| Mgt 420 Admin. of Personnel | 4 |
| Mgt 425 Industrial Relations | 4 |

| | |
|--|---|
| Mkt 301 Marketing Prin. | 4 |
| Micr 211, 212 Environmental Micr./Lab. | 5 |
| Psy 275/EDCI 275 Educ. Psy./Learning Processes in the Classroom | 5 |
| Elective in business, industrial engineering, finance, management, or marketing | 4 |

Option C — Foods in Business and Communication: prepares students for promotional work with utility companies, food or equipment companies, newspapers, and magazines.

General Education Requirements:

| | |
|---|-------|
| Eng 172 or Equivalent Contemp. Wrting. Skills. | 5 |
| InCo 101/103 Speech/Pub. Spkng. | 3-4 |
| Psy 101 Gen. Psych. | 5 |
| Soc 101/302, Anth 270/370 Intro. to Sociology/Basic Concepts or Gen. Anth. | 5 |
| Econ 101, 102/301, 302 | 8 |
| Chem 121/141, 122/142, 123/143 | 12-15 |
| Math 113 or equiv. Algebra | 5 |
| Art 101/102 2-Dimensional Design or 3-Dimensional Design | 4 |
| Humanities, literature or language elective | 4 |

Home Economics Basic Requirements:

| | |
|---|-----|
| HEG 101 Prof. Awareness | 2 |
| HECF 160/371 Child Devel. or Family Devel. | 3-4 |
| HEID 180 Furnishing Today's Home | 3 |
| HETC 315 Elem. Textiles | 4 |
| HECE 390 Family Consumer Econ. | 3 |

Specialized Requirements:

| | |
|--|------|
| HEFN 120 Meal Mgt. | 3 |
| HEFN 128 Intro. to Nutrition | 4 |
| HEFN 222 Food Science Prin. | 4 |
| HEFN 299 Soph. Practi.: Prof. Assessment | 2-5 |
| HEFN 321 Creative Cookery & Food Styling | 3 |
| HEFN 325 Food & Consumer | 3 |
| HEFN 334 Quantity Food Proc. | 4 |
| HEFN 399 Jr. Practi.: Prof. Devel. | 2-5 |
| HEFN 400 Sr. Seminar | 1-3 |
| HEFN 422 Experimental Foods | 4 |
| HEFN 423 Food Preservation | 3 |
| HEFN 426 World View of Nutrition | 3 |
| HEFN 499 Field Exper.: Foods & Nutrition | 5-12 |
| HECE 391 Equipment | 4 |
| HECE 395 Home Mgt. | 3 |
| Chem 301, 302 Organic Chem. | 6 |
| Micr 211, 212/411 Environmental Microbiology | 5-6 |
| Jour 250 Advert. Prin. | 5 |
| Mgt 325 Comm. Behavior in Mod. Organization | 4 |
| CS 150/252/Psy 121 Comput. Science/Stat. | 3-5 |
| Select two of the following: | |
| Jour 231A/441 | 4 |
| Mgt 300/Mkt 301 | 4 |
| Approved InCo course beyond general education requirement | 3-4 |
| Business/communication elective | 4 |

Option D — Nutrition with Science: prepares students for graduate study or research in nutrition.

General Education Requirements:

| | |
|--|-----|
| Eng 172 or equivalent Contemp. Wrting. Skills | 5 |
| InCo 101/103 Speech/Pub. Spkng. | 3-4 |
| Psy 101 Gen. Psych. | 5 |
| Soc 101/301 Intro. to Sociology | 5 |
| Econ 101/301 and 102/302 | 8 |
| Chem 141, 142, 143 Intro./Chem. Energetics/Quant. Analys. | 15 |
| Math 113 or equiv. Algebra | 5 |
| Science electives - physics, chemistry, math, or zoology | 5 |
| Art 101/102 2-Dimensional Design or 3-Dimensional Design | 4 |
| Humanities, literature or language elective | 4 |

Home Economics Basic Requirements:

| | |
|---|-----|
| HEG 101 Prof. Awareness | 2 |
| HEID 180 Furnishing Today's Home | 3 |
| HECF 371/160 Child Devel. or Family Devel. | 3-4 |
| HECE 390/395 Family Consumer Econ. or Mgt. | 3 |

Specialized Requirements:

| | |
|--|------|
| HEFN 128 Intro. to Nutrition | 4 |
| HEFN 222 Food Science | 4 |
| HEFN 299 Soph. Practi.: Prof. Assessment | 2-5 |
| HEFN 325 Food & Consumer | 3 |
| HEFN 334 Quantity Food Production | 4 |
| HEFN 399 Jr. Practi.: Prof. Devel. | 2-5 |
| HEFN 400 Sr. Seminar | 1-3 |
| HEFN 422 Experimental Foods | 4 |
| HEFN 426 World View of Nutrition | 3 |
| HEFN 428 Adv. Nutrition | 4 |
| HEFN 429 Community Nutrition | 3 |
| HEFN 430 Therapeutic Nutrition | 4 |
| HEFN 431 Studies of Science of Nutr. | 3-4 |
| HEFN 499 Field Exper.: Food & Nutrition | 5-12 |
| Anth 270/370 Basic Concepts/Gen. Anth. | 5 |
| Chem 301, 302 Organic Chem. | 6 |
| Micro 411 Microbiology | 5 |
| Zool 345 Human Physiology | 4 |
| Zool 463 Cell Chem. | 4 |
| Zool 464 Cell Chem. Lab. | 3 |
| Psy 121 Stat. | 5 |
| EDCI 275/Psy 275 Learning Proc. in Classroom/Educ. Psych. | 5 |
| Mgt 300 Intro. | 4 |
| Science electives (Physics, Chem, Math or Zool) | 5 |

Consumer Service and Education

Option A — Home Economics Education: prepares students for teaching home economics in the junior and senior high schools and adult education programs.

Basic course requirements for all home economics education majors.

General Education Requirements:

| | |
|--|-------|
| InCo 103 Pub. Spkng. | 4 |
| English or Language | 13-15 |
| Psy 101 Gen. Psych. | 5 |
| Soc 101 or 301 Intro. to Sociology | 5 |
| Econ 101 or 301 Prin. of Econ. | 4 |
| Chem 121, 122 and 123 | 12 |
| OR | |
| Bot 101, 102 and Zool 103 | 14 |
| OR | |
| Zool 101, 103 and 203 | 15 |
| Math or Psy 121 | 2-5 |
| Micr 211 and 212 Environmental Microbiology | 5 |
| Art 101 or 102 Studio Foundations | 4 |
| Comparative art, religion or philosophy | 4-5 |

Home Economics Basic Requirements:

| | |
|---------------------------------------|---|
| HEG 101 Prof. Awareness | 2 |
| HEFN 128 Intro. Nutrition | 4 |
| HEID 180 Furnishing Today's Home | 3 |
| HECF 371 Family Devel. | 3 |
| HECE 395 Home Mgt. | 3 |

Specialized Requirements:

| | |
|---|---|
| HEFN 120 Meal Mgt. | 3 |
| HEFN 222 Food Science Prin. | 4 |
| HETC 113 Design Analysis: Theory & Prin. | 5 |
| HETC 315 Elem. Textiles | 4 |
| HETC 317 Textiles & Dress & Environment | 3 |
| HECF 160 Intro. to Child Devel. | 4 |
| HECF 361 Preschool Guidance | 4 |
| HECE 390 Family Consumer Econ. | 3 |
| HECE 396 Home Mgt. Lab. | 4 |
| HECE 391 Equipment | 4 |

| | |
|---|-----|
| HECE 340 Tchng. Home Econ. | 4 |
| HECE 299 Seminar | 2-5 |
| HECE 399 Seminar | 2-5 |
| EdPl 465 Seminar | 3 |
| ECED 447 Econ. Analys. & Its Applic. to Curriculum | 4 |
| Approved Electives from 300-400 level courses in: | |
| Human Nutrition and Food Science | 3-4 |
| Human Environment and Design | 6-8 |
| Human Development and Family Ecology | 3-4 |

Professional Education:

| | |
|---|----|
| Psy 275 or EDCI 275 Educ. Psych./Learning Proc. in Classroom | 5 |
| EdSe 250 Analys. of Tchng. | 4 |
| EdSe 351 Instruct. Proc. & Curriculum | 5 |
| EdPl 360 or 361 Field Exper. Second. Schools/ Field Service in Educ. | 2 |
| EdPl 463 and 464 Stu. Tchng. | 12 |
| EdPl 465 Seminar in Home Econ. Educ. | 3 |
| EdSe 480 School & Society | 3 |

Students may complete requirements for job training certification by taking 45 hours of coursework in a specialized area of home economics. Permission must be granted by the home economics education advisor. The three options are:

Option B — Job Training — Child Care Services.

Option C — Job Training — Food Service.

Option D — Job Training — Community and Home Service.

Option E — Home Economics Extension: prepares students for positions with the Cooperative Extension Service.

Home economics extension majors take all basic course requirements listed above for home economics education majors.

Suggested course:

| | |
|------------------------------------|---|
| HEED 444 Home Econ. in Adult Educ. | 4 |
|------------------------------------|---|

Option F — Home Economics in Business: a special option which can be combined with any other area of home economics. Students are prepared for positions with newspapers, women's magazines, radio and television companies, department stores, and manufacturing companies.

General Education Requirements:

| | |
|--|----|
| English or literature | 10 |
| InCo 103 Pub. Spkng. | 4 |
| Soc 101 or 302 Intro. to Sociology or Prin. of Sociology | 5 |
| Psy 101 Gen. Psych. | 5 |
| Econ 101 or 301 Prin. of Econ. or Intro. to Econ. Analys. | 4 |
| Chem 121, 122, 123 | 12 |
| OR | |
| Zool 101, Bot 102, Zool 103 | 14 |
| OR | |
| PSc 101L, 102L, 103L | 12 |
| Comparative arts, religion or philosophy | 9 |
| Art 102 Studio Foundations | 4 |
| General Education Electives | 10 |

Home Economics Basic Requirements:

| | |
|----------------------------------|---|
| HEG 101 Prof. Awareness | 2 |
| HEFN 128 Intro. to Nutrition | 4 |
| HECF 371 Family Devel. | 3 |
| HECE 390 Family Consumer Econ. | 3 |
| HECE 395 Home Mgt. | 3 |
| HEID 180 Furnishing Today's Home | 3 |

Specialized Requirements:

| | |
|--|-------|
| R-TV 106 Intro. to R-TV | 4 |
| R-TV 121 Radio Performance | 4 |
| Jour 231 News Rptng. | 4 |
| Jour 331 Rptng. Contemp. Issues | 3 |
| Jour 441 Mag. Feature Wrting. | 4 |
| InCo 404 Prin. & Tech. of Interviewing | 3 |
| InCo 412 Adv. Pub. Spkng. | 3 |
| EDGS 410 Human Relations | 3 |
| Approved electives in journalism or radio- television | 10-13 |
| Approved courses selected from one specialized area of home economics | 35-45 |
| Sophomore practicum in selected area | 2-5 |
| Junior practicum in selected area | 2-5 |
| Field Experience in area | 5-12 |
| Senior Seminar in area | 1-3 |

Human Environment and Design

Textiles and Clothing

Option A — Fashion Merchandising and Promotion: prepares students for retail managerial and promotional positions such as buyer, fashion coordinator, or consultant in department stores; traveling stylist for pattern or fabric manufacturers; for promotional instruction and demonstration; and for fashion writing.

General Education Requirements:

| | |
|---|----|
| InCo 103 Pub. Spkng. | 4 |
| Eng 172 Contemp. Wrting. Skills | 5 |
| English Elective | 5 |
| Psy 101 Gen. Psych. | 5 |
| Soc 101 Intro. to Sociology | 5 |
| Econ 101, 102 Prin. of Econ. | 8 |
| Chem 121, 122, 123 Chem. | 12 |
| Art 102, 128 Dimensional Design, Basic Drawing | 8 |
| Comparative Arts (6) (2 quarters) | 6 |
| Approved General Education Electives | 7 |

Home Economics Basic Courses:

| | |
|----------------------------------|---|
| HEG 101 Prof. Awareness | 2 |
| HEID 180 Furnishing Today's Home | 3 |
| HECF 371 Family Devel. | 3 |
| HECE 390 Consumer Econ. | 3 |
| HEFN 325 Foods & Consumer | 3 |

Specialized Requirements:

| | |
|--|------|
| HETC 315 Elem. Textiles | 4 |
| HETC 317 Textiles & Dress in Environment | 3 |
| HETC 113 Design Analys.: Theory & Prin. | 5 |
| HETC 415 Design Analys.: Flat Pattern | 4 |
| One of the following: | |
| HETC 316 Design Analys.: Tailoring | 4 |
| HETC 313 Design Analys.: Experimental | 4 |
| HETC 417 Fashion Merchandising: Mgt. | 3 |
| HETC 318 Fashion Merchandising: Promo. | 4 |
| HETC 407 Fashion Industries | 4 |
| HETC 405 Hist. of Costume & Textiles | 5 |
| HETC 418 Quality Control | 4 |
| HETC 499 Field Work: Merchandising | 5-12 |
| HETC 299 Soph. Practi.: Prof. Assessment | 2-5 |
| HETC 399 Jr. Practi.: Prof. Devel. | 2-5 |

| | |
|---|-----|
| HETC 400 Sr. Seminar | 1-3 |
| Acct 101 Managerial Acct. | 4 |
| CS 150 Comput. Science-Survey | 3 |
| Jour 250 Advert. Prin. | 5 |
| Jour 231 or 441 News Rptng. or Mag. & Feature Wrng. | 4 |
| Mkt 301 Mkt. Prin. | 4 |
| Mgt 300 Mgt. | 4 |
| Approved business/communication electives | |

Option B — Fashion Merchandising and Textiles Testing: prepares students for positions in testing laboratories and consumer service departments of large chain companies or fabric manufacturers, and for promotional instruction and product development in related industries such as in laundry equipment and soap or detergent companies.

General Education Requirements:

| | |
|---|----|
| InCo 103 Pub. Spkng. | 4 |
| Eng 172 Contemp. Wrng. Skills | 5 |
| English Elective | 5 |
| Psy 101 Gen. Psych. | 5 |
| Soc 101 Intro. to Sociology | 5 |
| Econ 101, 102 Prin. of Econ. | 8 |
| Chem 121, 122, 123 Chem. | 12 |
| Art 101 2-Dimensional Design, Art 100 Vis. Art. | 7 |
| Comparative Arts (2 quarters) | 6 |
| Approved general education electives | 5 |

Home Economics Basic Requirements:

| | |
|--|---|
| HEG 101 Prof. Awareness | 2 |
| HEID 180 Furnishing Today's Home | 3 |
| HECF 371 Family Devel. | 3 |
| HECE 390 Consumer Econ. | 3 |
| HEFN 325 Foods & Consumer | 3 |

Specialized Requirements:

| | |
|---|------|
| HETC 315 Elem. Textiles | 4 |
| HETC 317 Textiles & Dress in the Environ. | 3 |
| HETC 113 Design Analys.: Theory & Prin. | 5 |
| HETC 415 Design Analys.: Flat Pattern | 4 |
| HETC 318 Fashion Merchandising: Promo. | 4 |
| HETC 407 Fashion Industries | 4 |
| HETC 405 Hist. of Costume & Textiles | 5 |
| HETC 418 Quality Control | 4 |
| HETC 419 Textile Testing | 4 |
| HETC 499 Field Work: Textile Testing | 5-12 |
| HETC 299 Soph. Practi.: Prof. Assessment | 2-5 |
| HETC 399 Jr. Practi.: Prof. Devel. | 2-5 |
| HETC 400 Sr. Seminar | 1-3 |
| Chem 301 Organic Chem. | 3 |
| Acct 101 Managerial Acct. | 4 |
| CS 150 Comput. Science-Survey | 3 |
| Jour 250 Advert. Prin. | 5 |
| Jour 231 or 441 News Rptng. or Mag. & Feature Wrng. | 4 |
| Mkt 301 Mkt. Prin. | 4 |
| Electives in statistics, math, physics | 12 |

Option C — Fashion Merchandising and Design: prepares students for the position of apparel designer and other technical or managerial positions in clothing manufacture.

General Education Requirements:

| | |
|--|----|
| InCo 103 Pub. Spkng. | 4 |
| Eng 172 Contemp. Wrng. Skills | 5 |
| English Elective | 5 |
| Psy 101 Gen. Psych. | 5 |
| Soc 101 Intro. to Sociology | 5 |
| Econ 101, 102 Prin. of Econ. | 8 |
| Chem 121, 122, 123 Chem. | 12 |
| Art 101, 102 2-Dimensional Design, 3-Dimensional Design | 8 |

| | |
|-------------------------------------|---|
| CA 117, 118, 119 Compar. Arts | 9 |
|-------------------------------------|---|

Home Economics Basic Requirements:

| | |
|--|---|
| HEG 101 Prof. Awareness | 2 |
| HEID 180 Furnishing Today's Home | 3 |
| HECF 371 Family Devel. | 3 |
| HECE 390 Consumer Econ. | 3 |
| HEFN 325 Foods & Consumer | 3 |

Specialized Requirements:

| | |
|---|-----|
| HETC 315 Elem. Textiles | 4 |
| HETC 317 Textiles & Dress in Environ. | 3 |
| HETC 113 Design Analys.: Theory & Prin. | 5 |
| HETC 313 Design Analys.: Experimental | 4 |
| HETC 415 Design Analys.: Flat Pattern | 4 |
| HETC 316 Design Analys.: Tailoring | 4 |
| HETC 416 Design Analys.: Draping | 4 |
| HETC 318 Fashion Merchandising: Promo. | 4 |
| HETC 400 Sr. Seminar | 1-3 |
| HETC 407 Textile & Fashion Industry | 4 |
| HETC 405A Hist. of Costume & Textiles | 3 |
| HETC 405B (2) or HEID 480 (3) Hist. of Costume & Textiles or Adv. Home Furnishings | |
| HETC 418 Quality Control | 4 |
| HETC 299 Soph. Practi.: Prof. Assessment | 2-5 |
| HETC 399 Jr. Practi.: Prof. Devel. | 2-5 |
| HETC 499 Field Work: Indiv. Design Problem | 4 |
| Art 128 Basic Drawing | 4 |
| CS 150 Comput. Science-Survey | 3 |
| Jour 250 Advert. Prin. | 5 |
| Jour 231 or 441 News Rptng. or Mag. & Feature Wrng. | 4 |
| Mkt 301 Mkt. Prin. | 4 |
| Mgt 300 Mgt. | 4 |
| Approved electives in studio arts | 16 |

Design

Option D — Interior Design: offers basic preparation that qualifies students for initial positions in the field of home furnishings and interior design.

General Education Requirements:

| | |
|--|-------|
| English | 5 |
| InCo 103 Pub. Spkng. | 4 |
| Psy 101 Gen. Psych. | 5 |
| Soc 101 Intro. to Sociology | 5 |
| Econ 101 Prin. of Econ. | 4 |
| Chemistry or Biology, or Physical Science with Lab | 12-14 |
| Comparative Arts, Art History | 9 |
| Art 101, 102 2-Dimensional Design, 3-Dimensional Design | 8 |

Home Economics Basic Requirements:

| | |
|--|-----|
| HECF 160 or 371 Fam. Devel. or Child Devel. | 3-4 |
| HEFN 128, 120, 325 Introductory Nutrition or Meal Mgt. or Food & Consumer | 3-4 |
| HECE 395 or HECE 390 Home Mgt. or Consumer Econ. | 3 |
| HEG 101 Prof. Awareness | 2 |
| HETC 315 Elem. Textiles | 4 |

Specialized Requirements:

| | |
|---|------|
| EG 104/105 Architectural Drawing | 10 |
| HEID 180 Furnishing Today's Home | 3 |
| HEID 299 Soph. Practi.: Prof. Assessment | 2-5 |
| HEID 280, 281, 282 Interior Design Studio | 15 |
| HEID 399 Jr. Practi.: Prof. Devel. | 2-5 |
| HEID 384 Family Housing | 3 |
| HEID 385 Home Furnishings Wkshp. | 4 |
| HEID 499 Field Work Exper. | 5-12 |
| HEID 400 Sr. Seminar: Prof. Evaluation | 1-3 |
| HEID 480 Hist. of Furniture | 4 |
| HEID 481 Contemp. Design in Furniture | 3 |
| HEID 482 Design in Home Accessories | 3 |

| | |
|--|----|
| HEID 483, 484, 485 Adv. Interior Design Studio | 15 |
| Jour 250 Advert. Prin. | 5 |
| Mkt 301 Mkt. Prin. | 4 |
| Approved business electives | 8 |

SCHOOL OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

James A. Lavery, *Director*

The School of Health, Physical Education, and Recreation has the following curricula:

Teacher Certification Programs

- A. Majors:
1. Health Education
 2. Physical Education
- B. Minors:
1. Health Education
 2. Physical Education

Noncertification Programs

- A. Majors:
1. Community Health Services
 2. Environmental Health Science
 3. Recreation Studies
- B. Minors:
1. Athletic Training Professional Program — NATA-certified program. Must be coupled with a health education or physical education major.
 2. Coaching
 3. Physical Therapy
 4. Recreation

Upon satisfactory completion of the requirements in any of the major programs in the school, students may apply for the bachelor of science degree.

The school also offers masters degrees in physical education with special concentration in physical education, physiology of exercise, and sports administration.

TEACHER CERTIFICATION PROGRAMS

Health Education

A major in health education prepares students for teaching in the secondary schools and for positions as health educators in community health agencies.

General Education

All students in health education or physical education must complete 45-50 hours of general education courses in order to be eligible for graduation.

1. Science

| | |
|---------------------|---|
| BOT 101 or ZOOL 101 | 5 |
| ZOOL 301 | 6 |
| ZOOL 345 | 4 |
2. Mathematics

Any course in the Mathematics Department except 011, 032, 109A, 109B, 320 and 420 is acceptable for the mathematics requirement. Also PSY 121 counts toward the mathematics requirement.
3. Comparative arts and/or philosophy

Each student is required to complete at least two courses in this area. The two courses need not be in one field. Possibilities include any courses in the Philosophy Department; Comparative Arts Department; HUM 107, 108, 109, 307, 308, and 309; theater history courses; Art History Department; Art Department except for ART 360, 460, 461, 462; School of Music courses except for music education courses, music therapy courses, and the one- or two-hour participation courses.
4. Social Studies

Each student is required to complete at least two courses in social science. The two courses need not be in the same field. PSY 101, which is required, is included as one of the social science courses. Other possibilities include any course in anthropology, economics, economic education, history, political science, sociology, social work, geography, and psychology, EXCEPT PSY 275, 121, 226, 312, and 314.
5. English and Interpersonal Communication

Each student is required to meet the University minimum English requirement as stated on page 34 of the Ohio University Bulletin. INCO 103 is a specific requirement in this area. INCO 103 may be waived on the basis of one semester of speech in high school. If waived, the course does not count as hours toward graduation nor as a course in this area.

Methods Course:

- | | |
|---------------------------|---|
| HPER 369 Tchng. of Health | 5 |
|---------------------------|---|

Major Requirements:

- | | |
|--|---|
| ZOOL 301 Human Anat. | 6 |
| ZOOL 345 Human Physiology | 4 |
| HEFN 128 Intro. to Nutrition | 4 |
| HECF 360 Human Sexuality or ZOOL 103 | 3 |
| HECF 471 Family Living Educ. | 4 |
| OR | |
| HECF 370 Family Living | 3 |
| SOC 201 Social Problems or SOC 123 or EDGS 410 | 4 |
| SOC 101 Intro. to Sociology | 5 |
| HPER 202 Personal & Community Health | 4 |
| HPER 227 First Aid | 3 |
| HPER 370 Community Health | 4 |
| HPER 380 Safety Education | 4 |
| HPER 333 Theory of Adapted | 3 |
| HPER 204 Drug, Alcohol & Tobacco Educ. | 3 |
| HPER 409 Test & Measurements | 4 |
| HPER 495 School Health Problems (Org. and Ad. in H.ED) | 5 |

Physical Education

A major in physical education prepares men and women for the following positions: teachers of physical education at the elementary and secondary school levels.

General Education

All students in health education or physical education must complete 45-50 hours of general education courses in order to be eligible for graduation.

1. Science

| | |
|---------------------|---|
| BOT 101 or ZOOL 101 | 5 |
| ZOOL 301 | 6 |
| ZOOL 345 | 4 |

2. Mathematics

Any course in the Mathematics Department except 011, 032, 109A, 109B, 320 and 420 is acceptable for the mathematics requirement. Also PSY 121 counts toward the mathematics requirement.

3. Comparative Arts and/or Philosophy

Each student is required to complete at least two courses in this area. The two courses need not be in one field. Possibilities include any courses in the Philosophy Department; Comparative Arts Department; HUM 107, 108, 109, 307, 308, and 309; theater history courses; Art History Department; Art Department except for ART 360, 460, 461, 462; School of Music courses except for music education courses, music therapy courses, and the one- or two-hour participation courses.

4. Social Studies

Each student is required to complete at least two courses in social science. The two courses need not be in the same field. PSY 101, which is required, is included as one of the social science courses. Other possibilities include any course in anthropology, economics, economic education, history, political science, sociology, social work, geography, and psychology, EXCEPT PSY 275, 121, 226, 312, and 314.

Physical Education

Select one of the following plans:

Plan A. Kindergarten through 12th grade certification with special emphasis in teaching physical education at the elementary school level.

Plan B. Kindergarten through 12th grade certification with special emphasis in teaching physical education at the secondary level.

Methods Course:

HPER 330 (Women), HPER 280 (Men) 3

Major Requirements:

Plan A. (Elementary Emphasis)

| | |
|-----------------------------------|---|
| ZOOL 301 Human Anat. | 6 |
| ZOOL 345 Human Physiology | 4 |
| HPER 106 Analys. of Movement | 3 |
| HPER 107 Mod. Dance I | 2 |

OR

| | |
|--|-----|
| HPER 108 Mod. Dance II | 2 |
| HPER 115 Rhythmic Activities | 2 |
| HPER 222 Tumbling & Mod. Gymnastics | 2 |
| HPER 225 Artistic Gymnastics | 2 |
| HPER 227 First Aid | 3 |
| HPER 234 Field Experience I | 1-3 |
| HPER 252 Kinesiology | 4 |
| HPER 275 Elem. School Rhythm & Dance | 3 |
| HPER 300 Elem. Phys. Ed. I | 3 |
| HPER 301 Elem. Phys. Ed. II | 3 |
| HPER 302 Motor Learning | 4 |
| HPER 333 Theory of Adapted Phys. Ed. | 3 |
| HPER 334 Field Exper. II | 3 |
| HPER 404 History & Prin. of Phys. Ed. | 4 |
| HPER 406 Organization & Admin. | 5 |
| HPER 409 Tests & Measurements | 4 |
| HPER 485 Percep. Motor Devel. in Children | 3 |
| HPER 495 School Health Problems | 5 |

Select one of the following courses:

| | |
|--|---|
| HPER 103 Swimming I | 2 |
| HPER 104 Swimming II | 2 |
| HPER 218 Life Saving | 2 |
| HPER 220 Water Safety Instructors | 2 |

Select one of the following courses:

| | |
|-------------------------------------|---|
| HPER 141 Archery-Golf | 2 |
| HPER 221 Tennis-Badminton | 2 |
| HPER 223 Track & Field | 2 |
| HPER 262 Field Hockey-Soccer | 2 |
| HPER 263 Basketball-Volleyball | 2 |
| HPER 264 Softball-Archery | 2 |

Plan B. (Secondary Emphasis)

| | |
|--|-----|
| ZOOL 301 Human Anat. | 6 |
| ZOOL 345 Human Physiology | 4 |
| HPER 106 Analys. of Movement | 3 |
| HPER 115 Rhythmic Activities | 2 |
| HPER 227 First Aid | 3 |
| HPER 234 Field Exper. I | 1-3 |
| HPER 252 Kinesiology | 4 |
| HPER 302 Motor Learning | 4 |
| HPER 333 Theory of Adapted Activities | 3 |
| HPER 334 Field Exper. II | 3 |
| HPER 404 Hist. & Prin. of Phys. Ed. | 4 |
| HPER 406 Organization & Admin. | 5 |
| HPER 409 Tests & Measurements | 4 |
| HPER 495 School Health Problems | 5 |

Select three of the following courses:

| | |
|---|---|
| HPER 371 Theory & Prac. of Team Sports | 3 |
| HPER 372 Theory & Prac. of Indiv. Sports | 3 |
| HPER 373 Theory & Prac. of Aquatics | 3 |
| HPER 374 Theory & Prac. of Dance | 3 |
| HPER 375 Theory & Prac. of Gymnastics | 3 |

Select one course from each area and elect three more. (Minimum — 16 hrs.)

A. TEAM SPORTS:

| | |
|-------------------------------------|---|
| HPER 262 Field Hockey-Soccer | 2 |
| HPER 263 Basketball-Volleyball | 2 |
| HPER 264 Softball-Archery | 2 |

B. INDIVIDUAL SPORTS:

| | |
|--------------------------------|---|
| HPER 141 Archery-Golf | 2 |
| HPER 221 Tennis-Badminton | 2 |
| HPER 223 Track & Field | 2 |

C. AQUATICS:

| | |
|---------------------------------------|---|
| HPER 103 Swimming I | 2 |
| HPER 104 Swimming II | 2 |
| HPER 218 Life Saving | 2 |
| HPER 220 Water Safety Instructor | 2 |

D. GYMNASTICS:

| | |
|--|---|
| HPER 222 Tumbling & Mod. Gymnastics | 2 |
| HPER 225 Artistic Gymnastics | 2 |
| HPER 322 Gymnastics | 2 |

E. DANCE:

| | |
|-------------------------------------|---|
| HPER 107 Mod. Dance I | 2 |
| HPER 108 Mod. Dance II | 2 |
| HPER 116 Social Forms of Dance | 2 |

Athletic Training Professional Program

Available to students majoring in health education and physical education. Selective admission through the Athletic Training Department. Any student participating in this program must complete 2,400 hours of clinical experience during the four-year program. Successful completion of the program leads to NATA certification.

Some of these courses are open to students not enrolled in the Athletic Training Professional Program. See instructor for permission to enroll.

Required Courses:

| | |
|--|---|
| ZOOL 301 Human Anat. | 6 |
| ZOOL 345 Human Physiology | 4 |
| HPER 252 Kinesiology | 4 |
| HPER 414 Physiology of Exercise | 4 |
| HPER 415 Physiology of Exercise (lab) | 2 |
| HEFN 128 Intro. to Nutrition | 4 |
| HPER 227 First Aid | 3 |
| HPER 329 Intro. to Athletic Training | 2 |
| HPER 420 Adv. Athletic Training | 4 |
| HPER 421 Athletic Training Practi. | 2 |
| HPER 418L Phys. Diagnosis | 4 |

NONCERTIFICATION PROGRAMS

Community Health Services

The program provides students with background courses and field experiences which qualify them for service in community health agencies. A bachelor of science in education degree will be awarded to those students completing the prescribed course of study.

General Education Requirements

| | |
|--|---|
| INCO 103 Pub. Spkng. | 4 |
| English (one course) | 5 |
| Philosophy/comparative arts (two courses) | 6 |
| INCO 105 or R-TV 105 or | |
| JOUR 105 Intro. to Mass Comm. | 4 |
| EdAV 480 Intro. to Educ. Media | 4 |
| EdAV 481 Prod. of Instruc. Material | 3 |
| EdGS 440 Foundations in Group Dynamics | 4 |
| OR | |
| INCO 205 Techniques of Group Discussion | 4 |

Social Sciences

| | |
|---|---|
| SOC 101 Intro. to Sociology | 5 |
| PSY 101 Gen. Psych. | 5 |
| ECON 101 Prin. of Econ. | 4 |
| ECON 102 Prin. of Econ. | 4 |
| SOC 201 Social Problems or Soc 123 | 4 |
| SOC 351 Elementary Research Techniques | 4 |
| SW 101 Intro. to Social Work | 3 |
| SW 290 Social Security System | 4 |
| SW 391 Am. Social/Welfare Institutions | 4 |

Biological Sciences

| | |
|--|---|
| BOT or Zool 101 Gen. Biol. | 5 |
| ZOOL 301 Human Anat. | 6 |
| ZOOL 345 Human Physiology | 4 |
| MICR 211 Environmental Microbiology | 3 |
| MICR 212 Environmental Microbiology Lab | 2 |

Health Education

| | |
|---|-----|
| EdCI 275 Learning Proc. in Classroom | |
| or PSY 275 Educ. Psych. | 5 |
| HEFN 128 Intro. to Nutrition | 4 |
| HECF 360 Human Sexuality or Zool 103 | 4 |
| HECF 471 Family Living Educ. or | |
| HECF 470 | 4 |
| HPER 202 Personal & Community Health | 4 |
| HPER 204 Drugs, Alcohol, & Tobacco | 3 |
| HPER 227 First Aid | 3 |
| HPER 234 Field Exper. I. | 1-3 |
| HPER 360 Environment Health & Safety | |
| Epidemiology | 5 |
| HPER 370 Community Health | 4 |
| HPER 380 Safety Educ. | 4 |
| HPER 464 Community Health Practi. | 15 |
| HPER 495 School Health Problems | 5 |

Environmental Health Science

A major in environmental health science prepares the student for public sanitation work and for meeting the state requirements for public sanitarians.

General Education Requirements

| | |
|------------------------------------|---|
| INCO 103 Pub. Spkng. | 4 |
| INCO 104 Listening | 2 |
| ENG 172 Contemp. Wrting Skill | 5 |

| | |
|--|---|
| PHIL 101 Fundamentals | 5 |
| EDGS 440 Foundations in Group Dynamics | |
| OR | |
| INCO 205 Techniques in Group Discussion | 4 |
| JOUR 105 Intro. to Mass Comm. | 4 |

Sciences

| | |
|--------------------------------------|---|
| CHEM 121 Intro. | 5 |
| CHEM 122 Chem. of Solutions | 4 |
| CHEM 123 Environ. Chem. | 4 |
| PHYS 201 Intro. to Physics | 4 |
| GEOL 201 Man & Phys. Environ. | 4 |
| ENT 325 Pollution Sol. I. | 3 |
| ENT 326 Pollution Sol. II. | 3 |
| ENT 334 Water Pollution Control | 4 |
| ENT 470 Energy & Environ. | 3 |

Social Sciences

| | |
|-----------------------------------|---|
| SOC 101 Intro. | 5 |
| SOC 223 American Society | 4 |
| SOC 350 Biostat. | 4 |
| SOC 351 Elem. Research Tech. | 4 |
| PSY 101 Gen. Psych. | 5 |
| ECON 101 Prin. | 4 |
| ECON 102 Prin. | 4 |

Biological Sciences

| | |
|-----------------------------------|---|
| BOT or Zool 101 Gen. | 5 |
| ZOOL 203 Prin. of Zool. | 6 |
| ZOOL 437 Medical Entomology | 6 |
| ZOOL 441 Parasitology | 6 |
| MICR 211 Environ. Microbiol. | 3 |
| MICR 212 Lab. | 2 |

Health Education

| | |
|---|----|
| HPER 202 Personal & Community Health | 4 |
| HPER 227 First Aid | 3 |
| HPER 360 Epidemiology | 5 |
| HPER 370 Community Health | 4 |
| HPER 380 Safety Educ. | 4 |
| HPER 495 School Health. Problems | 5 |
| HPER 464 Practi. | 15 |
| HECF 360 Human Sexuality | 3 |

Recreation Studies

Major and minor curricula are offered for prospective recreation specialists. Upon successful completion of the requirements students who major in recreation may apply for the bachelor of science. A degree in recreation will not lead to a teaching certificate in the State of Ohio.

The coursework is designed to prepare students in the basic recreation core and allow them to concentrate in recreation therapy, recreation management, outdoor education and camping, wilderness skills, and special interests.

The major curriculum prepares both men and women to assume positions in city recreation and park departments, state and federal government agencies, youth service agencies, institutional recreation, industrial agencies, religious organizations, camping, commercial recreation, and administration.

The minor in recreation studies is designed to fit the needs of part-time employees in the field of recreation. The curricula will prepare the students for supervision in schools and community recreation programs, summer playgrounds, and camping activities.

Major Requirements

I. General Education

(Required 33-35 hrs.)

| | |
|---|-----|
| ZOOL 101 Prin. of Biol. | |
| OR BOT 101 | 5 |
| INCO 103 Pub. Spkng. | 4 |
| English (See English Composition Requirement in this bulletin) | 5 |
| Comparative Arts or Philosophy | |
| Two Courses | 6 |
| PSY 101 Gen. Psych. | 5 |
| Math any except: 011, 032, 109A, 109B, 320, 420 | 5 |
| Social Studies one course (i.e., history, political science, anthropology, geography, sociology, social work) | 3-5 |

II. Physical Education Core

(Select 20 hrs.)

| | |
|---|---|
| HPER 115 Rhythmics | 2 |
| HPER 218 Life Saving & Water Safety | 2 |
| HPER 220 Swimming, Lifesaving, WS1 | 2 |
| HPER 202 Personal & Community Health | 4 |
| *HPER 227 First Aid | 3 |
| HPER 328 Instructors First Aid | 3 |
| *HPER 290 The Art of Sports Officiating | 2 |
| *HPER 380 Safety Education | 4 |
| *HPER 381 Administration of Intramurals | 4 |
| HPER 204 Drugs, Alcohol, & Tobacco | 3 |
| HPER 339 Football Officiating | 3 |
| HPER 340 Basketball Officiating | 3 |
| HPER 341 Baseball Officiating | 3 |

III. Major Content Area (79 hrs.)

A. Professional Recreation Core: (select 48 hrs.)

| | |
|--|-----|
| HPER 250 Recreation Leadership | 3 |
| HPER 314 Camping | 4 |
| HPER 345 Camp Leadership | 2 |
| HPER 449 Admin. of Rec. | 4 |
| HPER 236 Field Experience | 1-3 |
| HPER 336 Field Experience | 3 |
| HPER 315 Outdoor Recreation & Education | 4 |
| HPER 251 Crafts for Recreational Programs | 3 |
| HPER 176 Philosophy & Principles of Institutional Rec. | 4 |
| HPER 310 Program Planning & Facilities for Recreation | 4 |
| HPER 403 History of Recreation | 3 |
| HPER 440 Internship | 16 |

B. Professional Education Course: (required)

| | |
|--------------------------------------|---|
| EDAV 480 Intro. to Educational Media | 4 |
|--------------------------------------|---|

* Denotes required course

C. Recreation Tool Courses (select 18 hrs.)

| | |
|---|---|
| **HPER 240 Taxidermy I | 2 |
| **HPER 241 Taxidermy II | 2 |
| INDT 109 Crafts | 2 |
| ART (photo) 191 Basic Photography | 4 |
| ART 360 Elem. Teaching | 6 |
| HETC 110 Clothing Construction | 2 |
| THAR 240 Intro. to Children's Drama | 2 |
| THAR 301 Play Produc. | 4 |
| THAR 340 Dramatic Lit. for Children | 3 |
| THAR 441 Creative Dramatics | 3 |
| MUS 120 Intro. to Music Literature | 2 |
| MUS 160 Music Fundamentals | 3 |
| MUS 161 Music for the Classroom | 3 |
| ART 101 Two-Dimensional Design | 4 |
| ART 102 Three-Dimensional Design | 4 |
| ART 105 Intro. to Painting | 4 |
| ART 115 Intro. to Ceramics | 4 |
| ART 128 Basic Drawing | 4 |
| ART 131 Intro. to Sculpture | 4 |
| ART 141 Intro. to Printmaking | 4 |
| ART 151 Intro. to Graphic Design | 4 |
| INDT 391 Elem. Ind. Arts | 2 |
| HPER 270 Teaching of Physical Education | 3 |
| HPER 301 Elementary Physical Education | 3 |

D. Physical Education Activities: (select 9 hrs.)

IV. Primary Areas of Concentration: (select 35 hrs. from areas A, B, C, D, or E)

**Outdoor education students must select either HPER 240 or 241.

A. Recreation Therapy: This option focuses upon planning, conducting, and administering recreation programs serving the ill, disabled, aging, and disadvantaged in both institutional and community settings. Students may qualify for positions serving disabilities in the area of emotional illness, mental retardation, physically handicapped, and aging. Career opportunities are also increasing rapidly in penal and correctional settings and community programs serving the culturally-socially disadvantaged.

| | |
|--|---|
| ZOOL 301 Human Anat. | 6 |
| HPER 252 Kinesiology | 4 |
| PSY 131 Psychology of Adjustment (PSY 101) | 4 |
| PSY 332 Abnormal Psychology (9 hrs. in Psych.) | 5 |
| PSY 376 Psychology of Exceptional Children | 5 |
| EDSP 271 Intro. to Education of the Exceptional Child | 3 |
| EDSP 378 Sheltered Workshop Organization | 2 |
| *HPER 376 Principles and Practices of Therapeutic Recreation | 3 |
| HPER 470 Program Planning for Handicapped & Confined | 3 |
| HPER 460 Understanding Play | 3 |
| HPER 485 Perceptual Motor Development of Children | 3 |
| EDCI 200 Studies of Children | 4 |
| HECF 160 Intro. to Child Develop. | 4 |
| SOC 361 Deviant Behavior | 4 |
| SOC 363 Juvenile Delinquency | 4 |
| EDSP 400 Intro. to Emotionally Disturbed | 3 |
| EDSP 477 Problems of Adjustment for the Handicapped | 3 |
| HPER 333 Adaptive Physical Ed. | 3 |
| HPER 433 Physical Education for the Mentally Retarded | 3 |

B. Outdoor Education, Interpretive Services, and Camping. This option focuses upon planning and administering outdoor recreation programs, with special emphasis available for school-oriented programs and resident camping. Students may qualify for positions as interpretive naturalists, outdoor education resource persons, camp directors, visitor information center directors, or supervisors of outdoor recreation programs in federal, state and local agencies.

* Denotes required course.

| | |
|---|---|
| GEOG 235 Geography of Resource Man (Conservation) | 3 |
| GEOG 201 Environment and Man | |
| OR | |
| GEOG 201 Man & Physical Environ. | 4 |
| GEOG 101 Elements of Physical Geography | 5 |
| GEOG 101 Earth Structure | 4 |
| GEOG 102 Surface Proc. & Environment | 4 |
| GEOG 291A Earth Materials | 2 |
| GEOG 291B Glaciers & Glaciation | 2 |
| GEOG 291D Volcanoes & Earthquakes | 2 |
| GEOG 291E Mineral Resources | 2 |
| GEOG 291F Fossils & Evolution | 2 |
| GEOG 291G Soils & Weathering | 2 |
| GEOG 291I Water & Pollution | 2 |
| GEOG 310 Rocks & Minerals | 5 |
| HPER 101 Orienteering | 1 |
| HPER 101L Advanced Orienteering | 1 |
| HPER 1014 Survival I | 1 |

| | |
|---|---|
| HPER 1015 Survival II | 1 |
| BOT 311 Biology & Human Affairs | 3 |
| BOT 102 Plant Biology | 5 |
| BOT 247 Vegetation in North America | 3 |
| BOT 248 Trees & Shrubs | 5 |
| BOT 309 Taxonomy of Flowering Plants | 5 |
| BOT 425 Plant Autecology (or ZOOL 475) | 5 |
| BOT 426 Plant Synecology | 5 |
| ZOOL 203 Principles of Zool. | 6 |
| ZOOL 269D Biology of Natural Waters | 3 |
| ZOOL 271 Ornithology (field) | 2 |
| ZOOL 435 Entomology | 6 |
| ZOOL 475 Animal Ecology (or Bot 425) | 3 |
| ZOOL 476 Animal Ecology Lab | 2 |
| ASTR 100 Survey of Astronomy | 3 |
| ASTR 320 Elements of Navigation | 2 |
| EDPL 275 Learning Processes in the Classroom | 5 |
| EDUC 340 Teaching Science | 4 |

C. Recreational Management. This option focuses upon the administration of recreation programs and will qualify students for positions with public recreation, voluntary agencies, resident institutions, and camp administration.

| | |
|--|---|
| JOUR 105 Intro. to Mass Comm. (or InCo 105 or R-TV 105) | 4 |
| JOUR 231 News Writing & Reporting | 3 |
| JOUR 471 Public Relations | 5 |
| ECON 101 Principles of Economics | 4 |
| *ACCT 101 Managerial Accounting | 4 |
| ACCT 102 Managerial Accounting | 4 |
| MGT 200 Intro. to Management | 4 |
| MGT 300 Management | 4 |
| MGT 420 Administration of Personnel | 4 |
| MGT 425 Labor Relations | 4 |
| MGT 426 Manpower Management | 4 |
| MGT 440 Organization Theory | 4 |
| MGT 325 Communication Behavior in the Modern Organization | 4 |
| FIN 325 Managerial Finance | 4 |

Those interested in camp administration should select 1 of the 3 courses listed below:

| | |
|--|---|
| HEFN 122 Food Science & Principles | 4 |
| HEFN 128 Intro. to Nutrition | 3 |
| HEFN 320 Meal Management | 3 |

D. Special Interests. This option focuses upon individualized programs designed to meet unique career goals and will qualify students for extremely specialized positions in recreation and recreation-related fields.

The Special Interests Concentration consists of the student selecting, in consultation with an assigned advisor from the recreation studies faculty, a 35-hour course of study directed toward his or her particular goals.

The student's course of study in the special interests concentration must be approved by the recreation studies program faculty and the coordinator for recreation studies. A copy of the student's program will be filed in the office of the coordinator for recreation studies.

This option (concentration) will not be available to any student who can not meet his or her career goals through one of the existing courses of study or to any student who is not a declared recreation major.

E. Wilderness Skills. This option focuses upon planning, conducting, and administering high adventure and wilderness skills programs. Students may qualify for positions with various wilderness and survival schools, outdoor leadership programs, expedition outfitters, and commercial enterprises in high adventure activities. Career opportunities are also increasing rapidly in programs involving juvenile offenders in both public and private agencies.

Required Courses:

| | |
|---|---|
| *SW 101 Intro. to Social Welfare & Social Work .. | 3 |
| *SOC 361 Deviant Behavior | 4 |
| *SOC 363 Juvenile Delinquency | 4 |
| *HPER 1011 Orienteering | 1 |
| *HPER 101L Advanced Orienteering | 1 |
| HPER 101M Skiing I | 1 |
| HPER 1014 Intro. to Survival I | 1 |
| HPER 1015 Survival II | 1 |
| HPER 1020 Whitewater Rafting | 1 |
| HPER 1023 Inter. Snow Skiing | 1 |
| HPER 1024 Hunting | 1 |
| HPER 1026 Trap Shooting | 1 |
| HPER 1027 Rappelling | 1 |
| HPER 1028 Technical Climbing | 1 |
| HPER 1029 Advanced Wilderness Survival | 1 |
| HPER 1030 Cross Country Skiing | 1 |
| HPER 1031 Backpacking | 1 |
| HPER 1032 Canoeing | 1 |
| HPER 1033 Kayaking | 1 |
| HPER 1034 Ropes Course | 1 |
| HPER 1035 Rescue Techniques | 1 |
| HPER 1036 Primitive Construction | 1 |

Elective Courses (select 10 hrs. from the following:)

| | |
|---|---|
| GEOL 201 Man & The Physical Envir. | 4 |
| GEOL 291A Earth Structure | 2 |
| GEOL 291B Glaciers & Glaciation | 2 |
| GEOL 291G Soils & Weathering | 2 |
| GEOL 291L Water & Pollution | 2 |
| GEOL 310 Rocks & Minerals | 5 |
| GEOL 330 Prin. of Geomorphology | 5 |
| GEOL 407 Topographic Map & Aerial Photo Interpretation | 4 |
| BOT 247 Vegetation of N. America | 4 |
| BOT 248 Trees & Shrubs | 5 |
| BOT 309 Ohio Flora | 5 |
| SOC 201 Contemporary Social Prob. | 4 |
| SOC 210 Intro. to Social Psychology | 4 |
| SOC 364 Penology | 4 |

* Denotes required course.

CENTER FOR HUMAN DEVELOPMENT

As one of 49 university-affiliated centers in the United States, the Ohio University-Affiliated Center for Human Development is an interdisciplinary center which provides opportunities for students for training, service, technical assistance, and research related to individuals with developmental disabilities and special needs.

Students in affiliated colleges and departments within Ohio University may gain practical, clinical experience in structured observation, practicum hands-on opportunities in schools, agencies, and homes with which the center has associations and internships. The

interfacing of many disciplines within Ohio University, such as special education, guidance/counseling, nursing, early childhood education, social work, psychology, speech and hearing, and medicine, at the Center for Human Development adds an essential interdisciplinary extension of a student's instruction and helps to overcome the fragmentation caused by specialization.

Because of the center's many outreach programs in southeastern Ohio communities, students have a unique opportunity to gain early practical work-related experience in a variety of settings. They may observe and participate in interdisciplinary/transdisciplinary comprehensive evaluations, prescriptive programming, supervised intervention, family counseling, and follow-along services for developmentally disabled individuals ranging from infants to senior citizens on Ohio University's campus at Parks Hall, and at the satellite clinics located in other counties.

In addition to credit which may be given for practicum work and internships, students may

often gain credit for the preservice and inservice workshops sponsored by the center.

The center operates the Athens Day Living Center at Parks Hall for elderly and handicapped adults where students have the opportunity for interaction and supervised intervention in the newly developing field of gerontology. Also under the center's umbrella are the Genetics Clinic which provides birth defects consultation, screening, and follow-up counseling and the Pediatric-Psychiatry Clinic providing physician consultation of physical management for developmentally disabled clients.

The staff at the Center for Human Development includes special educators, psychologists, physical therapists, occupational therapists, social workers, family counselors, speech and language specialists, a behavior management specialist, and medical personnel.

The Center for Human Development is a full member of the American Association of University-Affiliated Programs for the Developmentally Disabled, and the Ohio Consortium of Developmental Disorders.

The University College

Don M. Flourney, *Dean*

Robert M. Wieman, *Associate Dean*

William L. Allen, *Assistant Dean*

Michael R. Daniels, *Assistant to the Dean*

Richard K. Brackin, Beverly K. Childs, Larry Gage, *Counselors*

University College is designed primarily to meet the needs of: 1) freshmen students who are undecided about their educational and career goals; 2) special students; 3) associate degree students on the Athens campus and the four regional campuses; and 4) students seeking degrees through the Bachelor of General Studies Program or the Bachelor of Criminal Justice Program. The criminal justice program is available to students who have earned associate degrees in related disciplines. The college staff manages orientation/advisement programs, such as Precollege, which assist students in reviewing their interests, planning academic programs, and adjusting to University life.

UNIVERSITY COLLEGE PROGRAMS

Academic Advising and Counseling

No single activity of University College requires more time or is given a higher priority than advising and counseling. It is the responsibility of University College to inform students about the existing academic options and assist them in coming to decisions about how they can best use the University to facilitate their growth and development.

Entering students able to identify a potential area of study are admitted directly to the degree college of their choice and are assigned faculty advisors representing their major department. Undecided students, or those who wish to explore several academic options prior

to settling into a major, are admitted to University College. They, as well as associate degree, general studies, and special students, are assigned University College counselors. In addition, upperclassmen in all colleges may seek out counseling in University College when their questions touch on University-wide issues or University College programs.

Students in the University College are encouraged at entry to follow the requirements of degree programs. Excepting English, there are no freshman requirements common to all students; students with tentative majors should refer to those requirements as outlined in the University Bulletin. Courses are offered in arts, humanities, mathematics, natural sciences, social sciences, and preprofessional areas. Students are normally expected to enroll for 16 hours per quarter, although they may take up to 20 hours without additional cost.

Precollege Freshman Program

Each year during July and August University College conducts an academic orientation program designed to acquaint freshmen and their parents with the programs of the University. Precollege results in a completed schedule and registration for each student. Students meet with undergraduate student counselors, University College professional counselors, and faculty advisors for assistance in planning their academic programs. Abbreviated orientation and advising programs are also held following Precollege and prior to the fall, winter, spring, and summer quarters for freshmen and transferring, reenrolling, relocating, and special students.

Freshman Interdisciplinary Courses

Each year University College sponsors a series of special interdisciplinary courses for freshmen. The courses vary from year to year and are particularly appropriate for exploratory students. Courses are available for one to ten hours of credit.

University Professors

To acknowledge outstanding undergraduate teaching, students of Ohio University each year select six University Professors. University Professors are full-time faculty who have demonstrated teaching ability and an effective insight into educational processes. Each has freedom to teach courses of his or her choosing and is awarded \$1,000 for educational support or professional development during the academic year of the appointment. At the present time this program is limited to the main campus.

The University Professor Selection Committee consists of three student representatives from each undergraduate college appointed by the dean.

The selection procedure has three parts:

1. Campus-wide nominations by ballot of outstanding full-time professors. This occurs during preregistration week of fall quarter.
2. Selection of the top nominees as a result of committee examination and class visitation during winter quarter.
3. Official appointment by the provost and dean of faculties after consultation with the respective department chairmen and deans.

DEGREE PROGRAMS

BACHELOR OF GENERAL STUDIES

The Bachelor of General Studies Program provides an opportunity for undergraduate students at Ohio University to design their own education. The student with high motivation, an exceptional background, or an unusual combination of talents and interests may find this degree program useful in attaining his or her goals. The program is geared toward four categories of students: 1) the student who is undecided about career goals and wishes to utilize University resources for career exploration; 2) the student who desires to obtain an education motivated only by self-interest with no apparent intent to utilize the education for career purposes; 3) the student who knows what it is he or she wants to become but wishes to pursue a nontraditional approach in attaining

that goal; and 4) the student who wants to combine the available University resources to create an entirely unique field of study not currently available in the curriculum offerings.

Students seeking to enter graduate school or one of the established professions may find that following the patterns suggested by the various disciplines may be more useful to them simply because the traditional degrees have greater visibility in the world and will more readily suggest the nature of their academic accomplishments to others. The Bachelor of General Studies Program is an acknowledgment that the existing degree programs, as varied as they are at Ohio University, cannot satisfy the legitimate educational requirements of all students. The General Studies Program provides the means by which individual students may, with the help of a University College counselor, determine the structure of their degree programs.

To enter the General Studies Program, the student must complete an application form which is available in the University College Office or at one of the regional campuses and have the completed application reviewed by a member of the University College staff. Final admission to the General Studies Program is granted only upon review of the application by the Bachelor of General Studies Review Subcommittee which is composed of students, faculty, and administrators.

The student must meet the following criteria before submitting an application to the General Studies Program for consideration:

1. Current enrollment with regular student status;
2. Achievement of sophomore rank;
3. An overall 2.0 accumulative grade point average.

A student must meet the following requirements to graduate in the General Studies Program:

1. Earn 192 credit hours, at least 90 of which must be in junior-senior level courses (courses whose catalog numbers are at the 300 level or above as determined by the Ohio University Bulletin).
2. Earn a minimum of a 2.0 accumulative grade point average based on the 192 credit hours.
3. Complete no fewer than 45 credit hours of Ohio University credit (BGS residence requirement) after being admitted to the general studies program, excluding any courses registered for prior to admission to the program. This includes any transfer, transient, Course Credit by Examination, Independent Study Through Correspondence coursework, etc., for which the initial registration was completed prior to seeking admission to the general studies program.
4. Complete a minimum of 45 credit hours in a self-selected area of concentration which has been approved by the Bache-

lor of General Studies Review Sub-Committee. The 45-hour concentration area is designed by the student and may include either work from one department or a combination of coursework from two or more related departments. The courses included in the concentration area become course requirements for graduation subject to change only by prior permission from a University College counselor, and in some cases the Bachelor of General Studies Review Sub-Committee. The prospective general studies student is advised to work closely with a faculty or resource person in the field of interest to elicit suggestions for constructing an appropriate program of study.

5. Complete the English composition requirement.
6. Satisfactorily complete the minimum of 48 credit hours of Ohio University coursework to satisfy the University residence requirement.

Applications may be submitted at any time during the quarter except in the case of seniors. Seniors must submit completed applications no later than the end of the fifth week of the quarter (end of two and one-half weeks during summer) to have current credit hours included as part of the total 45 credits needed after admission to the general studies program (subject to the exclusions listed in item 3 above, etc.). The deadline to submit applications and have current credit hours included as part of the BGS residence requirement are as follows:

Fall Quarter 1979-80

Deadline — October 10, 1979

Winter Quarter 1979-80

Deadline — February 5, 1980

Spring Quarter 1979-80

Deadline — April 28, 1980

Summer Quarter 1979-80

Deadlines — 1st Session — July 2, 1980

2nd Session — August 6, 1980.

BACHELOR OF CRIMINAL JUSTICE

The upperdivision Criminal Justice Program is designed specifically for students who have previously completed the associate degree program in an area related to criminal justice, such as law enforcement, corrections technology, or police administration. Students who hold such degrees from technical or community colleges or from a branch of Ohio University are able to enter directly into the Criminal Justice Program and complete the baccalaureate degree in two years.

This program offers students with technical education backgrounds the opportunity to broaden their exposure to liberal higher education, while acquiring the necessary specialization to qualify for careers in such fields as

parole and probation, forensic science, adult and juvenile corrections, and police administration. Criminal justice students may also prepare for law school or for further study in graduate or professional schools.

The flexible, interdisciplinary curriculum is composed of a broad range of courses from the social and behavioral sciences, humanities, natural sciences, and professional disciplines, all of which make a contribution to the complex field of criminal justice. Students also have the opportunity to design individualized programs of study to a significant degree with elective courses which relate to their career goals.

To enter the Criminal Justice Program, a student must complete an application form and submit a college transcript showing that he or she has completed an associate degree in an appropriate field. Upon entrance, the student will be assigned a faculty advisor who will assist in designing a program of study.

Degree requirements are as follows:

1. A total of 96 credit hours, beyond a minimum of 96 hours earned in an acceptable associate degree program.
2. Of the 96 hours in the criminal justice curriculum, 45 hours must be at the 300 level or above.
3. Within the total 192 hours, two courses in humanities and two courses in natural science and/or mathematics must be completed.
4. All students must complete no fewer than 12 courses from within the following core areas:

Area I: Basic skills (Choose three courses, one each from A, B, and C) — (A) Eng 308, IndT 270, Mgt 325; (B) InCo 215, 404, 448; (C) Psy 121, QM 201, Soc 350, CS 150. *Area II:* Social and political systems (Choose three courses, one from A and two from B) — (A) BSI 254, 350; (B) Soc 329, 362, 364, PolS 409, SW 493. *Area III:* Human behavior (Choose three courses, no more than two from A or B. Do not take both Soc 210 and Psy 336) — (A) BSI 482, Psy 330, 333, Soc 210, 211; (B) Psy 332, Soc 361, 363, Zool 390. *Area IV:* Organizational skills and management (Choose three courses, no more than two from A or B) — (A) Acct 101, Mgt 300, PolS 412; (B) BusL 255, Mgt 440, Soc 430.

The remaining 35-51 hours beyond the core requirement will be chosen, in consultation with a faculty advisor, on the basis of the student's educational goals and career interests. For those students without prior professional experience in criminal justice, internship, and field experience programs may be arranged.

ASSOCIATE DEGREES

University College offers several programs of study leading to the associate degree for students who plan to spend only two years at

the University. The residence requirement for associate degrees is less than that for baccalaureate degrees and is detailed in the *Graduation Requirements* section of this bulletin. Application for the degree is made at the Office of Student Records at the time announced for all degree candidates and must be accompanied by a fee of \$7.50. Associate degree candidates are encouraged to participate in the annual commencement exercises with all other degree candidates.

There are four categories of associate degrees offered by Ohio University:

1. Associate in Arts
2. Associate in Individualized Studies
3. Associate in Applied Business
4. Associate in Applied Science.

The minimum requirement for an associate degree is the completion of 96 credits with a 2.0 accumulative average at graduation. Additional requirements for each degree follow this section.

Credit earned while enrolled in an Ohio University associate degree program will be applied toward an Ohio University baccalaureate degree program. The shift from an associate to a baccalaureate degree program may involve spending additional time in completing the four-year requirements for two reasons: 1) prerequisite courses may not have been completed and 2) technical courses will apply only as elective courses in most four-year degree programs.

Information about all associate degree programs is available through either the regional campuses or University College. Students who plan to pursue an associate degree program must consult with the director of the specific program and/or with a member of the counseling staff of the regional campus or University College.

The student's academic records must be in the college responsible for the degree at the time he or she applies for and receives the associate degree (College of Arts and Sciences for mental health technology, University College for all other two-year degrees). If a student plans to apply for and receive both an associate degree and a baccalaureate degree simultaneously, the student's academic records will reside in the college responsible for the baccalaureate degree. It is the student's responsibility to insure that he or she is enrolled in the appropriate college.

Associate Degree After a Baccalaureate Degree

A student who has already earned a baccalaureate degree may pursue an associate in applied business degree or associate in applied science degree if the two-year degree is in a field other than that in which the baccalaureate degree was earned. It is also permissible for a student to pursue an associate in individualized studies degree after earning a baccalaureate degree depending on the rationale for doing so and the desired area of concentration. The as-

sociate in arts degree is not normally an appropriate degree objective for one who has already earned a baccalaureate degree. Requests for exceptions to this policy will be considered on an individual basis by the Associate Degree Sub-Committee.

Associate in Applied Business Degree. Available only in accounting technology (Lancaster), general secretarial technology (Chillicothe and Lancaster campuses), and real estate technology (Chillicothe). See details under the specific program.

Associate in Applied Science Degree. Available only in aviation technology (Athens), design technology (Lancaster), electronics technology (Lancaster), human services technology (Chillicothe), law enforcement technology (Chillicothe), library media technology (Lancaster), manufacturing technology (Lancaster), mental health technology (Athens), nursing (Zanesville), radio-television, either technology or performance-production (Zanesville), and security-safety technology (Chillicothe). See details under specific programs.

Associate in Arts Degree. Available on all campuses. The 96 required credits must include 30 credits of arts and humanities (some credits in each area), 15 credits of social and/or behavioral sciences, and 15 credits of natural sciences and/or mathematics. The remaining 36 credits may be of the student's own choosing. The only exceptions to these requirements are the specific curricula required for the four areas in home economics (Athens) which currently lead to the associate in arts degree: child development, foods and nutrition, interior design, and textiles and clothing.

Associate in Individualized Studies Degree. Available on the Athens, Chillicothe, Ironton, and Lancaster campuses. A student who wishes to pursue a two-year program of study in a field other than those available through one of the other associate degree options may design his or her own program of study to meet particular goals through the self-designed Associate in Individualized Studies Degree Program.

To be admitted to the program, the student must complete an application available in the University College Office or at one of the regional campuses and schedule an interview with a member of the counseling staff of the regional campus or University College. Final admission to the program is granted only upon review of the application by the Associate Degree Sub-Committee.

Although there are no specific course or academic area requirements, the application must outline the student's intended course of study and it must include a proposed area of concentration.

The student must indicate two resource

(advisory) faculty and/or staff members who have been consulted in the preparation of his or her program, one of whom must be from the student's area of concentration.

To submit an application for admission to the program, the student must be a currently enrolled *regular* student. Requirements for the associate in individualized studies degree are:

1. 96 quarter credits of work
2. 2.0 accumulative grade-point average
3. No fewer than 30 credits of work to be taken after admission to the program
4. Completion of the approved area of concentration.

Although applications may be submitted at any time during the quarter, the same deadlines established for the Bachelor of General Studies Program must be met to have current hours included as part of the 30 credits needed after admission to the Associate in Individualized Studies Degree Program.

Accounting Technology (AAB)

Ohio University-Lancaster offers a two-year program for accounting technicians leading to the associate in applied business degree. Requirements for the degree include 45 hours of accounting technology career courses, 23-25 hours in related basic courses, and 28-29 hours in general education courses. This program prepares the student to enter junior accountant positions in business, industry or government.

| Freshman | | | | | |
|-----------------|-----------------|-------------------|--|--|--|
| ATCh 103 .....3 | ATCh 104 .....3 | ATCh 105 .....3 | | | |
| BA 101 .....4 | GST 231 .....4 | ATCh 106 .....3 | | | |
| Eng 172 .....5 | Econ 101 .....4 | Math 117 .....4 | | | |
| GST 121 .....3 | Psy 101 .....5 | InCo 103 .....4 | | | |
| | | Elective .....3-5 | | | |
| 15 | 16 | 17-19 | | | |
| Sophomore | | | | | |
| ATCh 203 .....4 | ATCh 204 .....4 | ATCh 206 .....4 | | | |
| CS 150 .....3 | ATCh 205 .....4 | Fin 200 .....4 | | | |
| Mkt 101 .....4 | BusL 255 .....4 | GST 262 .....4 | | | |
| Psy 121 .....5 | Mgt 200 .....4 | Elective .....4-5 | | | |
| 16 | 16 | 16-17 | | | |

Aviation Technology (AAS)

The University College and the Aviation Department offer an associate in applied science degree in aviation technology. Completion of this program will prepare students for career opportunities in commercial aviation as F.A.A. certified pilots and air crew members as well as positions in related aerospace industries. Interested students should consult with the chairman of the Aviation Department, at the airport.

| Freshman | | | | | |
|-----------------|-----------------|-----------------|--|--|--|
| Avn 110 .....4 | Avn 240 .....4 | Avn 310 .....4 | | | |
| Eng 150 .....4 | Eng 172 .....5 | Avn 340 .....4 | | | |
| Econ 101 .....4 | InCo 101 .....3 | InCo 103 .....4 | | | |
| IndT 220 .....3 | Econ 102 .....4 | PSc 101 .....3 | | | |
| 15 | 16 | 15 | | | |

Sophomore

| | | |
|----------------|-----------------|-----------------|
| Avn 343 .....4 | Avn 400 .....4 | Avn 420 .....4 |
| Avn 350 .....4 | EdC1 275 .....5 | Geog 311 .....5 |
| Psy 101 .....5 | Math 113 .....5 | Avn 440 .....4 |
| PSc 102 .....3 | Elective .....2 | Elective .....3 |
| 16 | 16 | 16 |

Course offerings may vary from quarter to quarter; therefore the sequence may be adjusted to fulfill the requirements.

Child Development (AA)

University College and the School of Home Economics offer an associate in arts degree in child development. Interested students should consult with the director of home economics for additional information, including employment opportunities and continuation into the baccalaureate degree program.

General Education Requirements

| | |
|------------------------------------|--|
| English .....5 | |
| InCo 101 Fundamentals of Speech | |
| OR 103 Pub. Spkg. ....3-4 | |
| Soc 101 Intro. to Sociology .....5 | |
| Psy 101 Gen. Psych. ....5 | |
| Science or humanities .....10 | |

Technical Requirements

| | |
|---|--|
| HECF 160 Intro. to Child Devel. ....4 | |
| HECF 361 Prin. of Preschool Guid. ....4 | |
| HECF 363 Creative Experiences with Young Children .....4 | |
| HECF 364 Premath & Science with Young Children .....4 | |
| HECF 462A-F Child Devel. & Family Life Modules (must select at least two) ....4 | |
| HECF 371 Family Devel. ....3 | |
| HECF 365 Infant Educ. ....4 | |
| HECF 399 Jr. Practi. - Prof. Devel. ....2-5 | |
| HEFN 232 Infant & Child Nutrition .....4 | |
| HPER 227 First Aid .....3 | |
| EDSP 371 Tchng. the Preschool Handicapped .....3 | |
| EDEL 321 Children's Lit. ....4 | |

Basic Related Requirements

| | |
|---|--|
| Mus 262 Mus. in Early Childhood .....3 | |
| HSS 108 Intro. to Speech Disorders .....3 | |
| EdAV 480 Intro. to Educ. Media .....4 | |
| Art 360 Art for Elem. Teachers .....6 | |
| Soc 327 Sociology of Educ. ....4 | |

Electives

Enough for 96 total hours.

Design Technology (AAS)

Ohio University-Lancaster offers a two-year program for design technicians leading to the associate in applied science degree. Requirements for the degree include 57 hours of design technology career courses, 21 hours in related basic courses, and 24-26 hours in general education courses. This program prepares the student for various design positions such as design technician, product designer, engineering support, engineering manufacturing liaison, and machine designer.

Freshman

| | | |
|-----------------|-----------------|-----------------|
| DTch 100 .....4 | DTch 110 .....3 | DTch 150 .....3 |
| EG 101 .....3 | EG 102 .....3 | EG 121 .....3 |
| IndT 115 .....4 | IndT 216 .....4 | Math 119 .....4 |
| Math 117 .....4 | Math 118 .....4 | Phys 201 .....4 |
| | Eng 172 .....5 | InCo 101 .....3 |
| <hr/> | <hr/> | <hr/> |
| 15 | 19 | 17 |

Sophomore

| | | |
|-----------------|-----------------|--------------------|
| DTch 200 .....4 | DTch 210 .....4 | DTch 220 .....3 |
| DTch 230 .....4 | DTch 240 .....4 | DTch 250 .....4 |
| ETch 133 .....6 | Psy 101 .....5 | DTch 260 .....4 |
| Phys 202 .....4 | Elect* .....3-5 | Tech Elect* .....6 |
| <hr/> | <hr/> | <hr/> |
| 18 | 16-18 | 17 |

*Technical and nontechnical electives may be taken in any quarter as long as prerequisites are met.

Electronics Technology (AAS)

Ohio University-Lancaster offers a two-year program for electronics technicians leading to the associate in applied science degree. Requirements for the degree include 50-52 hours of electronics technology career courses, 25 hours of related basic courses, and 23 hours of general education courses. This program prepares the student for positions in production or service industries, assisting the engineer or working as part of an engineering team to design, test, install, or maintain electronics systems.

Freshman

| | | |
|-----------------|-----------------|-----------------|
| ETch 133 .....6 | ETch 134 .....5 | ETch 136 .....6 |
| EG 101 .....3 | ETch 137 .....3 | ETch 135 .....5 |
| IndT 115 .....4 | EG 102 .....3 | Phys 201 .....4 |
| Math 117 .....4 | Math 118 .....4 | Math 119 .....4 |
| <hr/> | <hr/> | <hr/> |
| 17 | 15 | 19 |

Sophomore

| | | |
|-----------------|---------------------|------------------|
| ETch 233 .....6 | ETch 234 .....6 | ETch 235 .....10 |
| Phys 202 .....4 | Tech. Elec. ....3-5 | BA 101 .....4 |
| Psy 101 .....5 | Elective .....4-5 | Eng 172 .....5 |
| InCo 100 .....3 | | |
| OR | | |
| InCo 101 .....3 | | |
| <hr/> | <hr/> | <hr/> |
| 18 | 13-16 | 19 |

Foods and Nutrition (AA)

University College and the School of Home Economics offer an associate in arts degree in foods and nutrition. Interested students should consult with the director of home economics for additional information, including employment opportunities and continuation into the baccalaureate degree program.

General Education Requirements

| |
|------------------------------------|
| English .....10 |
| InCo 101 Fundamentals of Speech |
| OR Pub. Spkng. ....3 |
| Econ 101 Principles .....4 |
| Soc 101 Intro. to Sociology .....5 |
| Psy 101 Gen. Psych .....5 |

Technical Requirements

| |
|---|
| HEG 101 Professional Awareness .....2 |
| HEFN 222 Food Science & Principles .....4 |

| |
|---|
| HEFN 128 Intro. to Nutrition .....4 |
| HEFN 120 Meal Mgt. ....3 |
| HEFN 437 Food Service Systems I .....4 |
| HEFN 334 Quantity Food Prod. ....4 |
| HEFN 321 Creative Cookery & Food Styling .....3 |
| HEFN 423 Food Preservation .....3 |
| HECE 390 Family Consumer Econ. ....3 |
| Acct 101 Managerial .....4 |
| Jour 250 Advert. Prin. ....5 |
| HECE 391 Equipment .....4 |
| BusL 255 Law & Society .....4 |

Basic Related Requirements

| |
|---|
| Mgt 300 Mgt. ....4 |
| Chem 121, 122, 123 Intro. to Chem., Chem. of Solutions, Environ. Chem. ....13 |
| Micr 211, 212 Environ. Microbiol. & Lab .....5 |

Electives

Enough for 96 total hours.

General Secretarial Technology (AAB)

The Chillicothe and Lancaster campuses of Ohio University each offer a two-year program leading to an associate in applied business degree in general secretarial technology. This program prepares the student to enter top secretarial positions in business, industry, and the professions. The program is weighted heavily in courses in business administration and much emphasis is placed on the development of manipulative and managerial skills. A limited number of elective courses will permit some specialization in an area of particular interest.

General Secretarial Technology

Freshman

| | | |
|------------------|------------------|--------------------|
| GST 111 .....3 | GST 112 .....3 | GST 113 .....3 |
| GST 121 .....3 | GST 122 .....3 | GST 123 .....3 |
| GST 131 .....3 | GST 171G .....3 | GST 172G .....3 |
| Eng 172 .....5 | Electives .....8 | GST 231 .....3 |
| Electives .....4 | | Electives .....3-5 |
| <hr/> | <hr/> | <hr/> |
| 18 | 17 | 15-17 |

Sophomore

| | | |
|-----------------|------------------|-----------------|
| GST 241 .....3 | GST 242 .....3 | GST 269 .....3 |
| ATch 103 .....3 | GST 249 .....2 | GST 293 .....2 |
| BA 101 .....4 | GST 250 .....2 | GST 299 .....2 |
| BusL 155 .....4 | GST 262 .....4 | InCo 103 .....4 |
| CS 150 .....3 | ATch 104 .....3 | Psy 101 .....5 |
| | Electives .....4 | |
| <hr/> | <hr/> | <hr/> |
| 17 | 18 | 16 |

Legal Secretarial Technology

Freshman

| | | |
|------------------|------------------|--------------------|
| GST 111 .....3 | GST 112 .....3 | GST 113 .....3 |
| GST 121 .....3 | GST 122 .....3 | GST 123 .....3 |
| GST 131 .....3 | GST 141L .....2 | GST 172L .....3 |
| Eng 172 .....5 | GST 171L .....3 | GST 231 .....3 |
| Electives .....4 | Electives .....6 | Electives .....3-5 |
| <hr/> | <hr/> | <hr/> |
| 18 | 17 | 15-17 |

Sophomore

| | | |
|-----------------|------------------|-----------------|
| GST 241L .....3 | GST 242L .....3 | GST 269 .....3 |
| ATch 103 .....3 | GST 262 .....4 | GST 293 .....2 |
| BA 101 .....4 | GST 249 .....2 | GST 299 .....2 |
| BusL 155 .....4 | GST 250 .....2 | InCo 103 .....4 |
| CS 150 .....3 | ATch 104 .....3 | Psy 101 .....5 |
| | Electives .....4 | |
| <hr/> | <hr/> | <hr/> |
| 17 | 18 | 16 |

Medical Secretarial Technology

| Freshman | | |
|------------------|------------------|--------------------|
| GST 111 .....3 | GST 112 .....3 | GST 113 .....3 |
| GST 121 .....3 | GST 122 .....3 | GST 123 .....3 |
| GST 131 .....3 | GST 141M .....2 | GST 172M .....3 |
| Eng 172 .....5 | GST 171M .....3 | GST 231 .....3 |
| Electives .....4 | Electives .....6 | Electives .....3-5 |
| 18 | 17 | 15-17 |

| Sophomore | | |
|-----------------|------------------|-----------------|
| GST 241M .....3 | GST 242M .....3 | GST 269 .....3 |
| ATCh 103 .....3 | GST 249 .....2 | GST 293 .....2 |
| BA 101 .....4 | GST 250 .....2 | GST 299 .....2 |
| BusL 155 .....4 | GST 262 .....4 | InCo 103 .....4 |
| CS 150 .....3 | ATCh 104 .....3 | Psy 101 .....5 |
| | Electives .....4 | |
| 17 | 18 | 16 |

Human Services Technology (AAS)

Ohio University-Chillicothe offers a two-year program leading to an associate in applied science degree in human services technology. The program prepares students for employment in agencies and institutions such as mental hospitals and clinics, correctional facilities, drug abuse programs, social services, and others providing human services. Students interested in admission to the program should contact the human services technology office at the Chillicothe campus.

| Freshman | | |
|----------------|-----------------|----------------|
| HST 102 .....3 | HST 101 .....5 | HST 125 .....4 |
| Eng 172 .....5 | HST 110 .....3 | HST 150 .....3 |
| Psy 101 .....5 | HST 290 .....4 | HST 170 .....4 |
| Soc 101 .....5 | PolS 306 .....4 | Psy 332 .....5 |
| 18 | 16 | 16 |

| Sophomore | | |
|-------------------|-------------------|------------------|
| HST 151 .....4 | HST 152 .....4 | HST 200 .....3 |
| HST 171 .....3 | HST 220 .....2 | HST 250 .....2 |
| HST 210 .....2 | HST 222 .....1 | HST 255 .....1 |
| HST 211 .....1 | Psy 333 .....5 | HST 290 .....3 |
| HST 275 .....3 | Zool 101 .....4-5 | Soc Sci .....4-5 |
| Elective .....3-4 | or 103 .....4-5 | Zool 382 .....3 |
| 16-17 | 16-17 | 16-17 |

Interior Design (AA)

University College and the School of Home Economics offer an associate in arts degree in interior design. Interested students should consult with the director of home economics for additional information, including employment opportunities and continuation into the baccalaureate degree program.

General Education Requirements

| |
|-----------------------------------|
| English .....10 |
| InCo 103 Pub. Spkng. ....4 |
| Soc 101 Intro. to Sociology ....5 |
| Psy 101 Gen. Psych. ....5 |
| Econ 101 Principles4 |

Technical Requirements

| |
|---|
| HEID 180 Furnishing Today's Home .....3 |
| HEID 384 Family Housing .....3 |
| HEID 385 Home Furnishings Wkshp. ....4 |

| |
|--|
| HEID 480 Hist. of Furniture .....3 |
| HEID 481 Contemporary Design in Furnishings .....3 |
| HEID 482 Design in Home Accessories .....3 |
| HEID 299 Soph. Practi. — Prof. Assessment .....2 |
| HEID 280, 281, 282 Interior Design Studio I, II, III .....15 |
| EG 104, 105 Architectural Drawing10 |

Basic Related Requirements

| |
|-------------------------------------|
| HETC 315 Elem. Textiles .....4 |
| Art 101 2-Dimensional Design .....4 |
| Mkt 301 Mkt. Prin. ....4 |
| Approved business electives8 |

Electives

Enough for 96 total hours.

Law Enforcement Technology (AAS)

Ohio University-Chillicothe offers a two-year program leading to an associate in applied science degree in law enforcement technology. This program prepares the student for employment in law enforcement by providing academic preparation for the contemporary officer. Career opportunities may be available in areas such as state highway patrol, local and county law enforcement agencies, corrections, juvenile authorities and as probation officers. Upon completion of this program, interested students may continue in the Bachelor of Criminal Justice Program on the Athens campus. Students may also work toward the Athens-based four-year degree in forensic chemistry. Additional information is available from the Law Enforcement Technology Program director or the director of the Criminal Justice Program.

| Freshman | | |
|------------------|------------------|------------------|
| LET 100 .....3 | LET 120 .....3 | LET 140 .....3 |
| LET 110 .....3 | LET 130 .....3 | LET 150 .....3 |
| Eng 172 .....5 | HPEC 227 .....3 | HPEC 101B .....1 |
| HPEM 100G .....1 | HPEC 100Q .....1 | Psy 101 .....5 |
| Soc 101 .....5 | InCo 101 .....3 | Soc 100 .....4 |
| | PolS 102 .....4 | |
| 17 | 17 | 16 |

| Sophomore | | |
|------------------|------------------|------------------|
| LET 200 .....4 | LET 230 .....3 | LET 260 .....3 |
| LET 210 .....3 | LET 240 .....3 | LET 270 .....3 |
| LET 220 .....3 | LET 250 .....3 | LET 280 .....3 |
| Art 191 .....4 | Soc 362 .....4 | PolS 320 .....5 |
| HPEM 100N .....1 | EdGS 410 .....3 | HPER 100X .....1 |
| | HPEM 100O .....1 | |
| 15 | 17 | 15 |

Library Media Technology (AAS)

Ohio University-Lancaster offers a two-year program in library media technology leading to an associate in applied science degree. This program prepares the student for employment as supportive staff in libraries between the professional librarian and the library clerk. Career opportunities may be available in elementary and secondary school libraries, public and academic libraries, business and industry, or government agencies.

| Freshman | | |
|-----------------|-----------------|-----------------|
| LMTC 101 ....3 | LMTC 102 ....4 | LMTC 103 ....4 |
| InCo 101 ....3 | LMTC 201 ....4 | LMTC 104 ....4 |
| Psy 101 ....5 | Eng 171 ....5 | Soc 101 ....5 |
| Elective* ....4 | Elective* ....4 | Elective* ....4 |
| 15 | 17 | 17 |

*Social or Natural Science.

| Sophomore | | |
|----------------|-----------------|------------------|
| LMTC 202 ....4 | LMTC 203 ....3 | LMTC 205 ....4 |
| LMTC 204 ....3 | LMTC 207 ....4 | LMTC 209 ....1-3 |
| LMTC 206 ....4 | LMTC 208 ....3 | Eng ....5 |
| Elective ....5 | Electives ....7 | Mgt 200 ....4 |
| 16 | 17 | 14-16 |

Manufacturing Technology (AAS)

Ohio University-Lancaster offers a two-year program for manufacturing technicians leading to the associate in applied science degree. Requirements for the degree include 45-47 hours of manufacturing technology career courses, 34 hours of related basic courses, and 18-21 hours of general education courses. This program prepares the student for positions in production industries which may include technician, quality control specialist, process control specialist, maintenance supervisor, foreman, and supervisor.

| Freshman | | |
|----------------|----------------|----------------|
| Chem 121 ....4 | Chem 122 ....4 | MTch 261 ....3 |
| EG 101 ....3 | IndT 216 ....4 | MTch 290 ....3 |
| IndT 115 ....4 | Eng 172 ....5 | EG 102 ....3 |
| Math 117 ....4 | Math 118 ....4 | Phys 201 ....4 |
| InCo 101 ....5 | | Math 119 ....4 |
| 18 | 17 | 17 |

| Sophomore | | |
|----------------|------------------|------------------|
| MTch 262 ....3 | MTch 220 ....3 | MTch 221 ....3 |
| ETch 133 ....6 | MTch 263 ....3 | MTch 264 ....3 |
| IndT 260 ....3 | Psy 101 ....5 | MTch 299 ....1-3 |
| Phys 202 ....4 | Elective ....4-5 | BA 101 ....4 |
| | | Elective ....4-5 |
| 16 | 15-16 | 15-18 |

Mental Health Technology (AAS)

The College of Arts and Sciences through the Department of Social Work offers the associate in applied science degree in mental health technology. (See the *College of Arts and Sciences Special Curricula* Section in this bulletin.)

Nursing (AAS)

Ohio University-Zanesville offers a two-year nursing program. A student who completes the program will receive an associate in applied science degree in nursing and will be eligible to write the State Board Examination for Registered Nurse. Program is accredited by the National League for Nursing.

| Freshman* | | |
|----------------|----------------|----------------|
| Nurs 101 ....5 | Nurs 102 ....5 | Nurs 103 ....6 |
| Chem 121 ....4 | Chem 123 ....4 | Psy 101 ....5 |
| Zool 101 ....5 | Zool 300 ....6 | Micr 310 ....4 |
| InCo 101 ....3 | | Zool 345 ....4 |
| 17 | 15 | 19 |

Nurs 1046 Cr., to be taken during 1st summer session between 1st and 2nd years.

The freshman English composition requirement must be met before the student begins the sophomore year of study.

| Sophomore* | | |
|-----------------|-----------------|-----------------|
| Nurs 201 ....6 | Nurs 203 ....6 | Nurs 205 ....9 |
| Nurs 202 ....6 | Nurs 204 ....6 | Nurs 206C ....1 |
| Psy 173 ....5 | Soc 101 ....5 | Elective ....5 |
| Nurs 206A ....1 | Nurs 206B ....1 | |
| 18 | 18 | 15 |

*The sequence of the above courses may not be altered without permission. Eng 171, 172 or 173 is required.

Radio-Television Technology (AAS)

Ohio University-Zanesville offers a two-year program leading to an associate in applied science degree in either radio-television technology or radio-television performance-production. The associate degree in radio-television prepares the student for employment as a technician, or for positions in the production-performance areas of broadcasting. The two-year program in radio-television technology prepares the student to take the examination for a First Class FCC engineering license. The entire program is coordinated with learning experiences at radio-television stations WHIZ-AM-FM-TV in Zanesville.

Performance-Production Sequence

| Freshman | | |
|----------------|--------------------------|----------------|
| R-TV 208 ....4 | R-TV 106 ....4 | R-TV 355 ....4 |
| R-TV 211 ....4 | R-TV 122 ....4 | R-TV 490 ....1 |
| R-TV 290 ....1 | R-TV 490 ....1 | InCo 103 ....4 |
| Eng 172 ....5 | Eng 100- or 200-level .5 | Soc 101 ....5 |
| | Psy 101 ....5 | Elective ....3 |
| 14 | 19 | 17 |

| Sophomore | | |
|----------------|-----------------|-----------------------|
| R-TV 216 ....4 | R-TV 230 ....4 | R-TV 217 ....4 |
| R-TV 490 ....1 | R-TV 490* ....5 | R-TV 400-level ....4 |
| Jour 231 ....4 | R-TV 498* ....1 | R-TV 490 ....1 |
| PolS 101 ....4 | Jour 351 ....5 | Hist 213 or 490 ....4 |
| Elective ....3 | PolS 102 ....4 | Jour 353 ....2 |
| 16 | 19 | 15 |

*Some students elect to complete their internship requirements during the summer session.

R-TV courses must be completed in the sequence listed, but other courses need not be completed in this exact order.

100 total hours of credit are required to receive an AAS degree in radio-television at Ohio University/Zanesville.

Technology Sequence

| Freshman | | |
|----------------|--------------------------|----------------|
| R-TV 208 ....4 | R-TV 106 ....4 | R-TV 355 ....4 |
| R-TV 211 ....4 | R-TV 490 ....1 | R-TV 490 ....1 |
| R-TV 290 ....1 | Eng 100- or 200-level .5 | InCo 103 ....4 |
| Eng 172 ....5 | Psy 101 ....5 | Soc 101 ....5 |
| | Elective ....4 | |
| 14 | 19 | 14 |

| Sophomore | | |
|-----------------|------------------|-----------------|
| R-TV 216 .....4 | R-TV 209 .....4 | R-TV 210 .....4 |
| R-TV 490 .....1 | R-TV 490* .....5 | R-TV 217 .....4 |
| Math 011 | R-TV 498* .....1 | R-TV 400- |
| or 113 .....5 | Math 113 | level .....4 |
| PolS 101 .....4 | or 163 A .....4 | R-TV 490 .....1 |
| Elective .....4 | PolS 102 .....4 | Elective .....4 |
| 18 | 18 | 17 |

*Some students elect to complete their internship requirements during the summer session.

R-TV courses must be completed in the sequence listed, but other courses need not be completed in this exact order.

100 total hours of credit are required to receive an AAS degree in radio-television technology at Ohio University/Zanesville.

Real Estate Technology (AAB)

Real estate courses are available on the Athens campus through the Extension Division Office and at the regional campuses through the Continuing Education offices. An associate in arts (AAB) degree in real estate technology is available at the Chillicothe campus.

Ohio University-Chillicothe offers a two-year program leading to an associate in applied business degree in real estate technology. This program prepares the student for employment in real estate positions dealing with planning, appraisal, law, and management for the larger corporations, the small-business man, and the homeowner. The program accommodates the State of Ohio bill which requires real estate salespersons and brokers to complete specialized courses.

| Freshman | | |
|-----------------|-----------------|----------------|
| RET 101 .....4 | RET 103 .....4 | RET 102 .....4 |
| Econ 101 .....4 | Econ 102 .....4 | BA 101 .....4 |
| Math 110 .....4 | Eng .....5 | Psy 101 .....5 |
| Mgt 200 .....4 | PolS 101 .....4 | Mkt 200 .....4 |
| 16 | 17 | 17 |

| Sophomore | | |
|------------------|-----------------|-----------------|
| RET 201 .....4 | RET 202 .....4 | RET 207 .....4 |
| Acct 101 .....4 | RET 204 .....4 | RET 211 .....4 |
| Elective* .....4 | Acct 102 .....4 | RET 221 .....4 |
| InCo 101 .....3 | BusL 255 .....4 | Mgt 325 .....4 |
| OR | | OR |
| InCo 103 .....4 | | BusL 356 .....4 |
| 15-16 | 16 | 16 |

*Suggested electives: Geog 130, Hist 211, 212, or 213, PolS 101, 102, Soc 101.

Security/Safety Technology (AAS)

Ohio University-Chillicothe offers a two-year degree program leading to an associate in applied science degree in security/safety technology. This program prepares the students for employment in security by providing academic preparation for the contemporary officer. Career opportunities may be available in areas such as corporate, industrial, retail, and government security.

The Security/Safety Technology Program is designed for in-service security officers and preservice men and women interested in careers in security. The goal of this program is to further their knowledge of security so they are better prepared to obtain employment in

this area and to help them qualify for promotion.

The security industry is currently one of the fastest growing industries in America. Security officers are now employed (and more will be employed in the future) by resorts, hospitals, airlines, government, retail companies, manufacturers, bus lines, trucking companies, housing authorities, colleges, public school systems, banks, and other industries.

Freshman

Fall

| | |
|--------------------------------------|----|
| SST 101 Intro. to Protective Systems | 3 |
| Soc 101 Intro. to Sociology | 5 |
| Eng 172 Contemporary Writing Skills | 5 |
| HPER 227C First Aid | 3 |
| SST 110 Phys. Security | 3 |
| | 19 |

Winter

| | |
|--|----|
| LET 120 Constitutional, Criminal & Civil Law | 3 |
| InCo 101 Fundamentals of Speech | 3 |
| PolS 101 Am. National Government | 4 |
| LET 130 Interviewing & Rpt. Wrng. | 3 |
| Soc 362 Criminology | 4 |
| | 17 |

Spring

| | |
|--|-------|
| SST 120 Occupational Safety & Health | 3 |
| EdGs 410 Human Relations | 3 |
| LET 260 Criminal Investigation | 3 |
| Psy 101 Gen. Psych. | 5 |
| SST 290 Special Area Studies or Elective | 3-4 |
| | 17-18 |

Sophomore

Fall

| | |
|--|----|
| LET 200 Proc., Rules & Tests of Evidence | 4 |
| ATCh 103 Fin. Acct. Proc. | 3 |
| BusL 255 Business Law | 4 |
| SST 201 Fire Safety & Fire Codes | 4 |
| | 15 |

Winter

| | |
|---|----|
| ATCh 104 Fin. Acct. Proc. | 3 |
| SST 210 Loss Prevention in Mod. Retailing | 3 |
| BA 101 Business & Its Environment | 4 |
| SST 220 Analys. of Security Needs Survey | 3 |
| CS 150 Comput. Science Survey | 3 |
| | 16 |

Spring

| | |
|--------------------------------------|----|
| SST 230 Information & Data Security | 3 |
| SST 240 Security Admin. | 3 |
| SST 250 Current Problems in Security | 3 |
| SST 260 Analyt. Acct. | 3 |
| PolS 102 Issues in Am. Politics | 4 |
| | 16 |

Textiles and Clothing (AA)

University College and the School of Home Economics offer an associate in arts degree in textiles and clothing. Interested students should consult with the director of home economics for additional information, including employment opportunities and continuation into the baccalaureate degree program.

General Education Requirements

| | |
|-----------------------------------|---|
| English | 5 |
| Psy 101 Gen. Psych. | 5 |
| Soc 101 Intro. to Sociology | 5 |
| InCo 103 Pub. Spkng. | 4 |
| Chem 121, 122 | 8 |

Technical Requirements

| | |
|--|---|
| HETC 113 Design Analys.: Theory & Prin. | 5 |
| HETC 315 Elem. Textiles | 4 |
| HETC 317 Textiles & Dress & Environ. | 3 |
| HETC 313 Design Analys.: Experimental | 4 |
| HECE 390 Family Consumer Econ. | 4 |
| HETC 314 Fashion Merchandising-Promo. | 4 |
| HEID 180 Furnishing Today's Home | 3 |
| Art 101, 102 2- & 3-Dimensional Design | 8 |
| Select 3 from the following: | |
| HECF 371 Family Devel. | 3 |
| HECF 160 Intro. to Child Devel. | 4 |
| HECE 395 Home Mgt. | 3 |
| HEFN 325 Food & the Consumer | 3 |

Basic Related Requirements

| | |
|-------------------------------------|---|
| Jour 250 Advert. Prin. | 5 |
| Acct 101 Managerial | 4 |
| Mkt 301 Mkt. Prin. | 4 |
| CS 150 Comput. Science Survey | 3 |
| Econ 101 Principles | 4 |

Electives

Enough for 96 total hours.

RESERVE OFFICERS TRAINING CORPS

The rationale for reserve officer training stems from a statement by the founding fathers of this nation that we must "provide for the common defense." For young men and women who have the desire and talent to dedicate their time to the service of their country there are many and varied rewards. Today, when science and technology are so much a part of the national defense, and the defense of this nation is so inextricably involved with world problems, our nation needs talented and well-trained officers in its military services. These services need the best managers, administrators, engineers, and scientists the nation's schools can produce: officers in command with wide ranges of knowledge and skill. The Reserve Officers Training Corps, in agreement with universities and colleges, is designed to produce these types of men and women for the nation.

The Air Force ROTC program at Ohio University is under the Aerospace Studies Department; the Army ROTC program is under the Military Science Program.

ROTC is divided into two phases: the basic course and the advanced course. The University offers a four-year program and a two-year program.

Basic Course Requirements. In general, any physically qualified student who is a U.S. citizen is eligible for enrollment in the basic course.

Advance Course Requirements. To be eligible for the advanced course a student must meet academic, physical, aptitude, and moral selection criteria, complete either the basic course on campus or the six-week summer camp/field training following the sophomore year, and enlist in the reserve of the appropriate service. Active duty commissions are not guaranteed upon successful completion of the program and students may be discharged from the reserve for reasons of academic failure, personal hardship, medical disqualification, or inaptitude.

Scholarships. Four-, three-, and two-year scholarships are available on a competitive basis for all qualified students participating in the program. These scholarships pay costs of tuition, fees, books, and laboratory expenses. In addition, recipients receive a subsistence allowance at the rate of \$100 per month for the period the scholarship is in effect.

Subsistence Allowance. All students in the advanced course receive subsistence allowances of \$100 per month.

Summer Camp/Field Training Allowances. All travel expenses, board, living quarters, and uniforms are furnished and students are paid while attending summer camp/field training.

Uniforms and Equipment. Textbooks, training equipment, and complete uniforms are loaned to all ROTC students without cost.

Commissions. A student who successfully completes the ROTC advanced course and the requirements for a baccalaureate degree will be qualified for the tender of a commission as a second lieutenant in the United States Army or the United States Air Force.

Special Schooling. The ROTC program encourages graduate study and may delay a call to active duty for up to four years for students enrolled in graduate-level study. Selected officers, after entrance on active duty, are sent to civilian universities or service technical institutes for graduate work leading to a master's degree or to a doctor's degree in specialized fields.

Aerospace Studies Program (Air Force ROTC)

The aerospace studies program is designed to develop the attitudes and skills required of professional Air Force officers. Emphasis is on professional education. The basic goal is to provide to student cadets the background knowledge to become junior officers in the United States Air Force, while acquiring baccalaureate degrees in fields of their own choosing.

The curriculum during the first two years of

the basic "General Military Course" (one credit hour per quarter) focuses on the doctrine, mission, and organization of the United States Air Force. It also includes studies of the development of air power and present concepts within the Air Force. Included within this framework are elements of national power, an overview of the Air Force, a study of democracy, and the actions of nations in their search for world peace. Concurrently with these academic subjects the student cadet will participate in leadership activities called "Leadership Lab." These will enable him or her to gain an insight into the dynamics of military leadership as well as to become familiar with the customs and courtesies of the military way of life. There is no service commitment during the first two years and it is an excellent way for a student to look at the Air Force as either a career or means of fulfilling a military obligation. The entire basic unit consists of six quarters of study and is entitled General Military Course or GMC.

The advanced curriculum, appropriately named the "Professional Officer Course" or POC, is specifically designed to prepare the student cadet for active duty as a commissioned officer. The course curriculum in the senior year includes study of defense policy making, the military and professional soldier, strategy and arms control. It emphasizes professional responsibilities of Air Force officers within our democratic society and how the Air Force supports national goals. Studies are made of the military leadership and principles of management during the junior year. Through classroom methods of case studies, guest lecturers, and dialogue, the student cadet experiences a realistic simulation of problems facing the junior officers. The members of the advanced Professional Officer Course develop their leadership skills by working with the freshman and sophomore cadets; they improve their communicative abilities by writing and speaking; and they perform organizational projects similar to those accomplished by active duty Air Force officers. This advanced unit consists of six quarters of on-campus study and a summer quarter of field training which is a prerequisite of the course.

Interested and qualified cadets have the additional option of becoming flying officers. Identification for either pilot or navigator training will be made during the freshman (GMC) year, or prior to the beginning of the advanced (POC) course. Cadets qualified in the pilot category will receive 25 hours of flight instruction in their senior year which may qualify them for entry into the USAF flying training programs after graduation and commissioning. This on-campus instruction will be provided at no cost to the student cadet as part of the Air Force ROTC program. Navigator qualified cadets receive no formal flight instruction until after graduation and commissioning when they will enter the USAF's Navigation Flying Training Program.

After commissioning, each new officer will be assigned to a position within the Air Force structure which best combines his or her academic major and desires with the needs of the Air Force. Past graduates have requested and been assigned to areas of air operations (both flyers and nonflyers); administration, biological, medical, physical, and social sciences; engineering; law; and research and development in aerospace technologies.

Military Science Program (Army ROTC)

The purpose of the military science program is to develop leadership and management skills necessary for commissioning as a second lieutenant in the United States Army. Military science is an elective course of study open to all students enrolled in Ohio University. It is open to men and women. The curriculum of the program is designed for precommissioning. It does not provide technical training in specialized areas or military vocational training. The military science curriculum complements the student's normal coursework and provides a basis for progression to a commission in the United States Army.

There are two programs available to the student: The traditional four-year program which parallels a normal four-year college program, and the two-year program which permits a student to enter late in the sophomore year. A description of these two programs is in the *Courses of Instruction* section of this bulletin.

The first two years of the four-year program are voluntary and incur no military service obligation for the student. During the final two years the student enters into a contract which obligates him or her to complete the program, accept a commission as an officer, and serve some period on active duty.

Students entering the two-year program must attend an initial six-week summer camp. This camp qualifies them for immediate entry into the advanced course in their junior year. Attendance at camp is voluntary and incurs no military service obligation.

Graduates of both programs are required to serve on active duty for three years or they may request reserve forces duty for three to six months followed by seven and one-half years of service with an active National Guard or Reserve unit.

In addition to the normal credit-granting courses, the department conducts a periodic leadership laboratory in which all advanced students take part in planning and conducting an adventure-type outdoor training activity. Examples of such activities are rappelling, survival swimming, marksmanship, visit to a military installation, physical training, canoeing, backpacking, and orienteering. Usually one or two of these activities are scheduled for a full day each quarter.

The department also sponsors several extracurricular clubs or activity groups which are

organized by the cadets with the aid of a department faculty advisor. Examples of these activities are skydiving, orienteering, color guard, rifle team, Pershing Rifles honorary, drill team, and Rangers. Cadet participation is voluntary but all advanced cadets are required to join at least one organization.

Field uniforms are issued to freshmen and sophomores. The Army dress green uniform is issued to upperclassmen. Wearing of the uniform is required for leadership laboratory only.

Financial assistance is available to ROTC cadets. All advanced course students receive \$100 per month subsistence allowance for each ten-month period of their junior and senior years. All summer camp expenses are paid by the Army. This includes meals, housing, uniforms. In addition, each cadet is paid approximately \$500 in military pay for camp attendance. This applies to both the Basic Camp, required of all two-year program cadets, and

the Advanced Camp, required of all advanced course cadets between the junior and senior years of the program.

Scholarships are available. High school seniors may compete for the Army four-year scholarship. Cadets already enrolled may compete for the three-, two-, or one-year scholarship. All scholarships pay full tuition (in or out of state), fees, and book costs.

Advanced course cadets are required to attend a six-week summer camp between the junior and senior year. Selected cadets may also attend the three-week U.S. Army Airborne Training School at Fort Benning, Georgia in addition to attending Advanced Camp.

In order to participate in the military science program, a student must take a scheduled credit course in military science, attend all scheduled leadership laboratories, and participate actively in at least one department-sponsored extracurricular activity.

Additional Curricula and Programs

CENTER FOR AFRO-AMERICAN STUDIES

Thomas Porter, *Dean*

Ohio University established the Black Studies Institute in the fall of 1969 as an important part of its effort to alter the trend of higher education as it deals with the black experience. One year later the department expanded and the official name was changed to the Center for Afro-American Studies with the Black Studies Institute being only one of the many programs within the center. The institute was subsequently renamed the Afro-American Studies Institute.

The Afro-American Studies Institute

The Afro-American Studies Institute offers an academic program leading to the bachelor of science degree. The program provides a broad interdisciplinary approach to the black experience, combined with attention focused upon the areas of the social sciences, education and psychology, and the arts and humanities. Courses of study are designed to meet the individual student's needs. Each student, with the guidance of an advisor, plans a sequence of courses in conformity with his or her interests.

The program is designed to prepare students for graduate and professional school, for careers in the public and private sectors, and to give them a heightened sense of civic responsibility.

Undergraduate admission to the institute should be made during the freshman or sophomore year. However, admission may be made during the junior and, in exceptional cases, the senior year. Since the degree program is highly individualized, early enrollment is advised. Each prospective major will be interviewed by the chairman of the program to determine his or her suitability for the academic program.

Resources and Supportive Services

The Resources and Supportive Services (RSS) unit, formerly the Black Resource Cen-

ter, was established in 1969 and charged with providing students cultural programming through workshops, symposia, and colloquia; academic, financial, and personal counseling services; developmental study skills courses and supportive library resources; and an informal milieu for social and academic interaction.

During the last several years, RSS, in expansion of its initial charge, has developed several new programs and projects. Programs Outreach, Aide, and Assessment seek to meet the compensatory and developmental needs of entering and continuing freshmen students. Project Aid in Developmental Education is designed to facilitate a re-entry system for students ineligible to continue studies in their college of initial registration.

The unit is staffed by an administrator, instructor, and three peer counselors. Inquiries concerning the programs and projects sponsored by the Resources and Supportive Services unit should be directed to: Center for Afro-American Studies, Resources and Supportive Services, Director, Room 328, Lindley Hall, Ohio University 45701.

The Lindley Student Center. Set up in the spring of 1975, the center offers a unique combination of social and recreational facilities. Its programs are especially geared to meet the needs and interests of black students, but it is not exclusively for blacks. All students, especially international students, are invited to frequent the center in order to experience what may be a new exposure to black culture. The center has developed a multi-dimensional program, including the recreational, social service aspects, plus educational/cultural programming. The center is on the ground floor of Lindley Hall, next to the minipark.

Requirements for Degree in Afro-American Studies

The bachelor of science degree in Afro-American studies is granted upon completion of the Ohio University graduation requirement of 192 quarter hours, with a minimum of 45 hours in black studies and at least 30 of these hours being completed in a focal area. A student must have a minimum point-hour ratio of 2.0 (C) on all hours attempted to qualify for graduation. In addition, the student must successfully complete:

- A. Requirements for all majors:
BSI 106 Introduction to Afro-American Studies (5 hours)
BSI 221 Basic Political Economy (5 hours)
- B. Five (5) hours selected from among the following:
BSI 101 Introduction to Afro-American Arts
BSI 103 Introduction to Education I
BSI 109 Introduction to Afro-American Literature
BSI 119 Introduction to Black Media
- C. Foreign Language Requirement (8 hours)
- D. Humanities (18 hours)
- E. Social Sciences (18 hours)
- F. Natural Sciences/Mathematics (18 hours)
- G. English Composition (University Requirements)
Freshman-level composition course
Advanced-level composition course

Students should be aware that no more than eight credit hours earned in developmental courses may be applied toward the total hours required for graduation.

The heart of our program is the advising process. Each student works closely with a faculty or staff member whose capabilities are related to the student's academic interests.

THE EXTENSION DIVISION

Curtis M. Johnson, *Director*
Z. Brent Fry, *Continuing Education*
Andrew Chonko, *Workshops, Conferences, and Institutes*
Robert Dakin, *Ohio Program of Intensive English*
Richard Moffitt, *Independent Study*

The Extension Division is the administrative umbrella under which the following offices operate: Continuing Education; Workshops, Conferences, and Institutes; Ohio Program of Intensive English; and Independent Study. The purpose of the Extension Division is to

provide life-long learning opportunities beyond the regular channels of the University by utilizing the resources of the University in nontraditional ways.

Classes, independent study courses, workshops, and seminars are planned as requests and need indicate. Both credit and noncredit programs are offered and may or may not lead to a degree. Students seeking admission to a degree program must be admitted through regular Ohio University procedures. Participants in designated noncredit courses may be awarded continuing education units (CEUs).

Programs of special interest to audiences beyond the traditional credit-seeking student include the Senior Citizens Program and the Informal Community Learners Program. The Senior Citizens Program began fall quarter, 1973, and provides opportunity for Ohio residents who are 60 years of age or older to participate in many University courses at no cost to the participant.

The Informal Community Learners Program (ICLP) was approved for implementation spring quarter, 1977, on a pilot basis. ICLP allows any resident of the Ohio University community who is not currently enrolled for credit to be admitted on a space-available basis to any undergraduate class offered by the University. University credit cannot be earned through ICLP or the Senior Citizens Program.

CONTINUING EDUCATION

Continuing Education provides credit programs and courses at the graduate and undergraduate level as well as noncredit courses in such diverse areas as community development, technical and professional updating, liberal adult education, and avocational or recreational programs. Even though the main thrust of the continuing education effort is toward meeting the needs of those individuals not already enrolled in the University, limited programming is offered to meet the regular students' needs.

Credit courses usually run according to the regular University academic quarter calendar, while noncredit programs run for whatever number of sessions are necessary to accomplish the purpose. Class sessions are generally held in the evening, although some daytime programs are scheduled. Faculty are especially selected for programs which may be conducted either on campus or off campus at sites such as industrial plants or libraries.

The standard University tuition fee is charged for any credit coursework; each noncredit program has a fee determined primarily by direct costs; whenever possible, public service activities are conducted at no cost to the participants. Admission to the University is necessary only for credit courses; anyone may usually register for a noncredit course.

Many continuing education programs are

conducted in cooperation with outside agencies. Cooperative arrangements with Marietta College provide graduate courses in education, engineering, and business administration. A credit program in economic education is conducted through the Center for Business and Economic Education at Ashland College. In addition, general academic coursework is provided for the nursing students at the school of nursing at Holzer Hospital, Gallipolis.

Each campus offers a noncredit real estate program which leads realtors and other enrollees to the Graduate Realtors' Institute (GRI) certificate. Credit courses leading to an associate degree in real estate are available at most campuses.

Other specialized programs have been organized in the areas of drugs, human sexuality, nursing education, secretarial training, law enforcement, training the mentally retarded, and similar topics.

A cooperative arrangement with the American Management Association Extension Institute permits Ohio University to offer AMA programs as one of many noncredit opportunities to regional business and industry.

A continuing education director is located on the Athens campus and on each regional campus to explore and meet the needs of those specific communities and surrounding areas. Inquiries are welcome from any local business, industrial, or civic group interested in utilizing University expertise or seeking aid from other resources.

INDEPENDENT STUDY

The Independent Study Program provides a number of flexible ways by means of which any person capable of pursuing college-level work can earn college credit and, in certain cases, degrees without some of the limitations imposed by the traditional university structure. Independent Study allows an individual to learn at the time, place, and rate suited to his or her own particular needs and provides the administrative format for the validation of non-traditional learning and life experience.

Independent Study Courses provide a highly structured method of independent study involving a tutorial relationship with a faculty member who guides the student's learning and monitors his or her progress. A detailed study guide prepared by the professor responsible for the course is sent to each student. This publication contains an overview of the course and directs the student's learning as the textbooks, cassette audio tapes, and other educational materials, devices, and techniques are used. The student submits written assignments which are evaluated and commented on by the professor. Supervised examinations at the student's location are generally required.

Independent Study Projects can often be arranged in undergraduate courses not currently available as independent study courses. These arrangements are made on an individual basis and are contingent upon the approval of the department in which the course is offered and the availability of a qualified faculty member willing to direct the project. This is an unstructured form of independent study which can be used most effectively by the experienced student. The student and the faculty member agree upon the conditions which must be fulfilled for credit to be awarded. The work may include a variety of readings, papers, projects and examinations.

Course Credit by Examination represents the least structured method of obtaining college credit through the Independent Study Program. The participant receives at the time of enrollment a brief prospectus which describes the nature of the course; the textbooks and other materials required are listed and the nature of the supervised examination is explained. The student prepares for the examination without intermediate assistance from a faculty member. Letter grades and credit are awarded for performance on the examination.

The External Student Program is available to students who wish to earn either the associate or bachelor's degree primarily through the various independent study options or in combination with residential work. Services offered through this program include evaluation of previous college-level work and program planning.

The College Level Examination Program (CLEP) is especially useful for the adult who has had no previous college experience but whose work or life experience may be the basis for college credit. It is also useful for the beginning college student who has had an enriched high school experience. The program is sponsored by the College Entrance Examination Board and the Independent Study Office serves as an open test center administering examinations by appointment on Saturday of the third week of each month. Detailed information is available in a special publication which can be supplied on request.

OHIO PROGRAM OF INTENSIVE ENGLISH (OPIE)

This program provides training in the English language designed to raise the proficiency of the nonnative speaker to a level that enables him or her to undertake academic study in an American college or university. Ten- and 20-week full-time intensive courses and a ten-week semi-intensive course accommodate students at varying levels of beginning profi-

ciency. After placement through initial proficiency tests, the student receives from two to five hours of daily classroom instruction and practice in oral and written English.

Regular admission to Ohio University makes students eligible for enrollment in this program if necessary. Students planning study at another college or university in the United States may be admitted as special students for study in the OPIE only. However, this admission is limited to students who can furnish proof of at least provisional admission to another institution.

WORKSHOPS, CONFERENCES AND INSTITUTES

The major responsibility of the Workshops, Conferences, and Institutes Office is to help the various schools and departments within the University to plan, organize, and conduct non-credit programs and credit courses outside the regular University pattern. To accomplish this, the office makes available a coordinator who serves as a consultant to anyone wanting assistance in planning a conference, short course, or similar educational venture.

In addition, the office plans and develops its own programs and courses to meet the educational needs of the public at the local, state, and national levels. The administrative services of the Workshops, Conferences, and Institutes Office include budgeting, program promotion, requisitioning of supplies and materials, registration, arranging food service and housing, reserving facilities and equipment, and program evaluation.

It is also the responsibility of the Workshops, Conferences, and Institutes Office to serve as the University's contact with outside organizations, such as the English Handbell Ringers and the Rainbow Girls Assembly, which contract for use of the staff or facilities of the University for educational programs.

Approximately 180 workshops, conferences, and institutes are conducted on the Athens campus each year, including such diverse programs as the Saturday Morning Art Workshop for Children, Coal Preparation Conference, Research and Development Managers Institute, Ohio School of Banking, Credit Union Institute, band camps, annual publications, and forensics workshops for high school students, summer short courses for teachers, and boys' and girls' sports clinics.

THE HONORS TUTORIAL COLLEGE

Margaret F. Cohn, *Director*

The Honors Tutorial College attempts to provide at Ohio University the most challeng-

ing education possible both to the academically gifted and to the creative student. It does so through the Tutorial Program and the Departmental Honors Program. The degree in the Tutorial Program is a bachelor of arts or a bachelor of science in _____ (major area of study).

THE TUTORIAL PROGRAM

The program is modeled after the tutorial system used at Oxford and Cambridge Universities. Although some colleges and universities have adopted particular features of this system, at this time in the United States, only Ohio University offers a degree-granting program which incorporates all of the essential features of the tutorial system.

Selective Studies

Tutorial studies are *not* remedial. On the contrary, the program is open only to highly qualified and highly motivated students who are already committed to one of the areas of study listed below.

Participating Departments

Twenty-one areas currently participate in the program. *Tutorial studies are available only for students majoring in one of these areas.* They are: botany, chemistry, economics, English, engineering physics, French, geography, hearing and speech sciences, history, interpersonal communications, journalism, mathematics, philosophy, physics, political science, psychology, radio-television, sociology, Spanish, theater, and zoology. Each has a well-established graduate program which assures excellent faculty, laboratory, and library facilities.

Students preparing for careers in law may also major in any one of these areas, although the departments of economics, history, philosophy, and political science have designed special prelaw programs.

A detailed description of each departmental program is available upon request.

A One-to-One Learning Experience

When a student has chosen an area, a director of studies is assigned to coordinate the program. In addition to mapping out a curriculum, the director of studies will assign individual tutors as the student progresses through the various subdivisions of the major area of concentration. The tutors are full-time faculty members who have voluntarily committed themselves to being tutors. In the tutorial the student meets individually with his or her tutor to report on the weekly assignment.

Individual Programs

Each student together with the director of studies designs a program best suited to the student's needs. However, the program is a highly supervised and structured one rather than a free-wheeling series of independent study projects.

Admission

Excellent academic credentials are required of each applicant. Standardized test scores, high school record, and recommendations from teachers and counselors will be used to select participants in the program. All students are required to fill out the standard application for admission to Ohio University. In addition, the student must be accepted by the department of his or her choice. Each department accepts between five and ten students each year, so whether or not a qualified student is accepted will depend upon the number of qualified applicants to the department in that year.

Goals of the Program

To provide an educational mode which enhances the learning process by:

- Replacing lecturing in the student's major by tutorial.
- Permitting each student, under guidance, to proceed at an optimum pace.
- Exposing the student, in a one-to-one relationship, to an accomplished scholar in a field of study.
- Establishing a living/learning environment in a special residence hall.

To provide qualified students with an alternative to the cafeteria style of curricula common to most undergraduate programs.

To provide the career-oriented student with the best possible preparation for later graduate work in the shortest possible time.

Examinations

For the tutorial system to work at its best, the student/tutor relationship must be free from the pressures of examinations. Therefore, examinations will be prepared and graded by a departmental committee. Because of the close relationship between student and tutor, the tutor will know long before an examination is scheduled whether or not the student will be able to pass it. Examinations are given only when the tutor feels that the student has mastered the material.

The purpose of giving comprehensive examinations is to force the student to do, over a period of a year, what he or she has had to do on a smaller scale for the weekly tutorial, namely, to assimilate knowledge and to consider it again in the light of other knowledge and experience. The existence of comprehensive examinations does not prohibit the tutor, at any time, from testing a student's grasp of ideas, or

devising some basis upon which to evaluate a student's progress. Indeed, each tutor will be expected to submit a quarterly evaluation which will permit us to discover problems soon enough to minimize their impact on the student's further education.

Competency-Based Degree Requirements

One of the essential features of the tutorial program is that it substitutes measurement of competency for a mere accumulation of credit hours or residence requirements. There is no fixed number of class hours required for graduation and no specific distribution requirement by the college. In order to graduate, a student must satisfy departmental requirements. This satisfaction consists of passing a set of comprehensive examinations and showing competency in required fields of collateral studies. Thus, it is quite possible for the student to complete his or her undergraduate work and receive a degree within two or three years.

Essentially a Three-Year Degree

The programs are designed so that in most cases a student will graduate at the end of three years, at which time preparation for further study would be at the level of many students entering their second year of graduate work.

Residential Life

Ohio University presently requires that all freshmen and sophomores live in University residence halls. Students in the tutorial program will be invited to live in the Honors Tutorial House (Hoover House) on the New South Green. However, they may choose to live in one of the other University residence halls.

DEPARTMENTAL HONORS PROGRAM

Undergraduate students enrolled in any of the colleges of Ohio University may choose to do departmental honors.

The student must submit a satisfactory thesis in his or her major. The thesis may be expository, creative, or of a research nature, and may be written by registering for up to 15 hours of study under the departmental thesis advisor. In addition to the thesis, in order to graduate with departmental honors, a student must satisfy the general college requirements, the departmental major requirements, and any additional honors requirements of his or her specific department.

The student should discuss the project with a faculty member in his or her major department before enrolling in departmental honors. When the project is approved by the department, he or she should then apply for de-

partmental honors on the forms available at the Honors College (Graduate Building, Room 307).

It is the responsibility of each student to make sure that the Honors College is informed of the nature of the project by submitting a brief synopsis, and to inform the Honors College at least a month before graduation that he or she expects to graduate with "Honors in _____." This is necessary in order that proper recognition may be given at commencement exercises. The student should be sure to check the appropriate space, on the card accompanying the application for graduation, indicating that he or she is completing an Honors project.

INTERNATIONAL STUDIES

Edward Baum, Assistant Provost for
International Studies

CENTER FOR INTERNATIONAL STUDIES

Ohio University established the Center for International Studies in 1964 to provide students and citizens of the United States and other countries with opportunities to obtain knowledge about peoples and cultures of the world, particularly Africa, Asia, and Latin America, and about related international concerns. This endeavor is founded on the broad belief that an appreciation of different values and institutions increases understanding between peoples, enriches the lives of individuals, and assists all in forming opinions on issues which affect the growing world community.

The center coordinates teaching, research, and publications activities through programs related to three world regions — the African Language and Area Center, the Latin American Studies Program, the Southeast Asia Studies Program — and Comparative and International Studies. These programs assist in the development of courses and the expansion of library materials. They support visiting lecturers, film series, seminars, and colloquia throughout the year. More than 90 scholarly papers relating to Africa, Southeast Asia, and Latin America have appeared in the center's publication program. An East Asia Committee also functions with some modest support from the center.

Major in International Studies

Through the College of Arts and Sciences the center offers an undergraduate major in international studies. See the *Courses of Instruction* section of this bulletin for program requirements.

Undergraduate Certificate

The center offers certificates in African, Asian, and Latin American Studies and in International Affairs to benefit students who wish to add an international dimension to their majors as well as those interested in international careers or planning graduate work in area studies. The proper notification is placed on the student's official transcript upon completion of the requirements. Requirements for the certificate are listed under International Studies in the *Courses of Instruction* section of this catalog.

Languages and Literatures

Ohio University offers courses in foreign languages relevant to Africa, Asia, and Latin America, including Hausa and Swahili (Africa), Chinese and Indonesian/Malay (Asia), and Spanish (Latin America). These languages fulfill the language requirements in the College of Arts and Sciences. A detailed description of languages and literatures is under the Foreign Languages and Literatures section in the *Courses of Instruction* section of this catalog.

Courses

Three area interdisciplinary courses are available through the center. These are Africa (InSt 113), Asia (InSt 103) and Latin America (InSt 121). These courses, which provide an introduction to the regions, satisfy social science requirements as well as certificate requirements. In addition, 65 faculty members in the various departments on campus teach over 150 courses each year that relate to African, Asian, and Latin American studies.

Below is a list of principal courses relevant to African Studies, Asian Studies, Latin American Studies, and International Affairs. Please check the complete course descriptions under the various departments.

Anthropology

- 270 Basic Concepts of Anthropology
- 348 Enculturation
- 350 Economic Anthropology
- 351 Political Anthropology
- 358 Women: A Cross-Cultural Survey
- 366 Cultures of the Americas
- 371 Ethnology
- 372 Cultures of the World
- 377 Peasant Communities
- 381 Cultures of Sub-Saharan Africa
- 385 Cultures of Southeast Asia
- 387 Cultures of Oceania
- 457 Anthropology of Religion
- 476 Culture, Contact & Change
- 478 Cultural Ecology

Art History

- 330 The Arts of the Orient
- 331 Pre-Columbian Art
- 332 African Art

Black Studies

- 153 History of Colonialism
- 253 Comparative Neo-Colonialism
- 264 Comparative Study of Injustice
- 493 Politics of Change

Business Administration

- 485 Multi-National Business

Dance

- 250 Ethnic Dance of Non-Western Cultures
- 351-352-353 Dance Cultures of the World

Economics

- 214 Economics of War and Peace
- 340 International Economics
- 350 Economic Development
- 370 Comparative Economic Systems
- 441 International Economic Policy
- 455 African Economic Development
- 473 Economics of Southeast Asia
- 474 Economics of Latin America

Education, International Comparative

- 420 Comparative Cultures and Education
- 425A Education and Development in Africa
- 432 Perspectives in International Education

Finance

- 455 International Finance

Geography

- 121 Elements of Cultural Geography
- 130 Economic Geography
- 140 World Regional Geography — Eurasia
- 141 World Regional Geography — Oceania
- 142 World Regional Geography — Western Hemisphere
- 325 Principles of Political Geography
- 331 Geography of Agricultural Activity
- 345 Southeast Asia I
- 346 Southeast Asia II
- 351 Geography of Sub-Saharan Africa I
- 352 Geography of Sub-Saharan Africa II
- 355 Geography of South America
- 356 Geography of Middle America
- 490 Geographic Studies
- 490J Field Problems in Geography: Belize

History

- 316A History of U.S. Foreign Relations to 1898
- 316B History of U.S. Foreign Relations, 1898-1941
- 316C History of U.S. Foreign Relations since 1941
- 322 Latin America in 19th Century
- 323A Latin American Survey-Colonial Period
- 323B Latin American Survey-National Period
- 325 Inter-American Relations
- 326A Recent Latin America: Argentina, Brazil and Mexico in the 19th and 20th Centuries
- 326B Recent Latin America: Andean Nations-19th and 20th Centuries
- 326C Recent Latin America: Central America and the Island Republics in the 20th Century
- 333 Oil, Energy, and International Diplomacy
- 335A Survey of Middle East History to 1800
- 335B Survey of Middle East History since 1800
- 336A North Africa in Modern Times
- 336B North Africa since 1914
- 338 History of West Africa
- 338A History of East Africa
- 341A Africa to the 17th Century
- 341B Africa from the 17th Century to the Late 19th Century

- 341C Africa from the 19th Century to Present Day
- 342 History of South Africa
- 344A History of Malaysia
- 344B Burma and Thailand in Modern Times
- 344C History of Vietnam
- 344D Chinese in Southeast Asia
- 345A Southeast Asia to 1750
- 345B Southeast Asia 1750-1942
- 345C Southeast Asia 1942 to Present
- 346A Traditional China
- 346B Modern China
- 348A Traditional Japan
- 348B Modern Japan
- 374B,C History of International Diplomacy
- 423 Studies in Latin American History, 1750-1880
- 427 Studies in Recent Latin American History
- 449 Studies in the History of East Asia in Modern Times
- 498 Problems in History

International Studies

- 103 Modern Asia
- 113 Africa
- 121 Interdisciplinary Survey of Latin America

Interpersonal Communications

- 448 Cross-Cultural Communications

Journalism

- 466 International Communications
- 467 Foreign Correspondence

Languages and Literatures

Language and literature courses are offered in several different departments. Courses offered which are relevant to International Studies include the following:

Black Studies

- 113 Literature of Africa
- 211 Third World Literature
- 355 Literature of West Africa
- 357 Literature of the Caribbean
- 358 Literature of South Africa

English Language & Literature

- 306A,B,C Studies in Oriental Literature
- 461-2-3 Colloquium on African Literature

Foreign Languages

- 111-2-3 Elementary Chinese, Hausa, Indonesian/Malay, and Swahili
- 211-2-3 Intermediate Chinese, Hausa, Indonesian/Malay, and Swahili
- 311-2-3 Advanced Chinese, Hausa, Indonesian/Malay, and Swahili

Spanish

- 341-2-3 Advanced Conversation and Composition
- 349 Spanish-American Civilization and Culture
- 443 Survey of Spanish-American Literature
- 447 Themes from Latin American Prose
- 448 Contemporary Spanish-American Literature

Management

- 484 International Comparative Management

Philosophy

- 350 Philosophy of Culture
- 370 History of Religions: India
- 371 History of Religions: China and Japan
- 470 Indian Philosophy
- 471 Buddhist Philosophy
- 475 Chinese Philosophy

Political Science

- 230 Comparative Politics
- 250 International Relations
- 351 Current International Problems

- 414 Public Administration and Organizational Behavior
- 434 Government and Politics of Latin America
- 435 Revolution in Latin America
- 436 The Politics of Brazil
- 441 Government and Politics of Africa
- 445 Government and Politics of Japan
- 446 Government and Politics of China
- 447A,B Government and Politics of Southeast Asia
- 448 Politics of Southeast Asia
- 452 Advanced International Relations
- 455 International Law
- 456 International Organization
- 461 Weak States in World Politics
- 479 Latin American Political Thought
- 490 Independent Study
- 490U U.S. and Africa
- 498 Independent Study

Sociology

- 305 Readings in Sociology
- 407 Social Process and Change in Southeast Asia
- 408 Latin American Society
- 414 Contemporary Social Movements
- 421 Comparative Studies of Family

REGIONAL CAMPUSES

Ohio University has four campuses, other than the Athens campus, located in Belmont County, Chillicothe, Lancaster, and Zanesville; a branch at Ironton; and a resident credit center at Portsmouth.

The primary objective of the regional campuses is to offer a broad program at the freshman and sophomore levels. Each location has a full two-year curriculum in the arts and sciences, business administration, and education, with selected courses in specialized fields such as engineering and fine arts. Students are eligible to receive the associate in arts degree after completing an approved two-year program of study. Available at some locations are specialized two-year programs leading to the associate in applied business or associate in applied science, designed as preparation for specific career opportunities in the immediate area. However, to pursue a baccalaureate degree a student must relocate to the Athens campus or transfer to another institution after completing a two-year program. The resident credit center at Portsmouth offers only upper-level courses.

The admission policies for the regional campuses are the same as those of the Athens campus. Ohio high school graduating seniors who can commute from home to one of the regional campuses will be admitted as regular full-time or special part-time students. This decision is based on the high school transcript, Scholastic Aptitude Test, or the American College Test (preferred). The regional campuses have no residence halls.

Courses of Instruction



Courses of Instruction

CATALOG NUMBERS — The catalog number indicates the student classification for which the course is primarily intended:

- 001-099 Noncredit courses
- 100-299 Undergraduate general program
- 300-499 Undergraduate advanced or specialized program

Within the College of Arts and Sciences the alphabetical catalog-number suffixes -I and -O are not used. Other alphabetical suffixes have specific meanings: -H, Honors College courses; -M, megasections; -T, tutorial courses; -X, study abroad courses.

CREDIT — Credit for a course is indicated by the number or numbers in parentheses following the course title. In a quarter course it may be expressed thus: (3), (1-3) or (2 or 3).

A course with one quarter hour of credit (1) is the equivalent of one recitation or two or more laboratory periods a week throughout a quarter.

In a course carrying variable credit, the credit may be expressed (1-4, max 8), indicating that one hour is the minimum and four hours the maximum amount of credit allowed for the course in one quarter. However, a student may enroll in the course any number of times and for any number of credit hours, within the quarter limit, provided the total registration for the course does not exceed eight hours.

Course prerequisites are indicated at the beginning of the course description, following the abbreviation "Prereq." A student who has any doubts if he or she has fulfilled prerequisites, due to changes in the numbering system over the past several years, should check the course titles and consult with his or her advisor and the office of the dean. A student who completes an advanced course may not subsequently enroll in a prerequisite course for credit.

If a course is offered for other than the normal academic year of fall, winter, and spring quarters, this fact is noted in parentheses after the prerequisite. Such courses are offered only in the quarters specified.

INSTRUCTORS — The listing is as of March, 1978. Unless otherwise indicated in italics following the quarter specification in the course description, the course is taught by the staff of the department.

FEE — When a course requires a private instructional fee, the amount is stated in the course description.

SCHEDULE — A Schedule of Classes is available each quarter from the Office of Registration.

COURSES OF INSTRUCTION are available in the following areas of study:

Accounting
Accounting Technology
Aerospace Studies
Anthropology
Art
Art History
Astronomy
Aviation
Black Studies
Botany
Business Administration
Business Law
Chemistry
Comparative Arts
Computer Science
Dance
Design Technology
Economic Education
Economics
Education
Electronics Technology
Engineering and Technology
Engineering, Chemical
Engineering, Civil
Engineering, Electrical
Engineering Graphics
Engineering, Industrial and Systems
Engineering, Mechanical
English
Film
Finance
Foreign Languages and Literatures
Geography
Geology
Health
Hearing and Speech Sciences
History
Home Economics
Human Services Technology
Industrial Hygiene
Industrial Technology
International Studies
Interpersonal Communication
Journalism
Law Enforcement Technology
Library Media Technology
Linguistics
Management
Manufacturing Technology
Marketing
Mathematics
Mental Health Technology
Military Science
Music
Nursing
Ohio Program of Intensive English
Philosophy
Physical Education
Physics
Political Science
Psychology
Quantitative Methods
Radio-Television
Real Estate Technology
Recreational Studies
Secretarial Technology, General
Security/Safety Technology
Social Work
Sociology
Theater
University College
Zoology and Microbiology

ACCOUNTING

The accounting major is designed to equip the student to enter the profession of accountancy at the beginning level in public or industrial accounting or in governmental or nonprofit institutions.

In addition to the B.B.A. degree requirements, a student majoring in accounting must complete Acct 303, 304, 305, 310, plus two other accounting courses at the 300-400 level. At least one additional advanced accounting course should be taken to qualify for the CPA examination. The major requirements also include BusL 357 and QM 401. Note that Acct 304 (Intermediate) has a prerequisite of permission of the department.

101 Managerial Accounting (4)

(fall, winter, spring, summer) Uses of accounting information for making managerial decisions.

102 Managerial Accounting (4)

Prereq: 101. (fall, winter, spring, summer) Continuation of 101. See 101 for description.

217 Introduction to Taxation (4)

(fall, winter, summer) Introduction to process of taxation with emphasis on broad provisions of federal income tax as it applies to individuals. (Prereq for Acct 317.)

303 Accounting Principles and Procedures (4)

Prereq: 102. (fall, winter, spring) Fundamental accounting principles and practices emphasizing data accumulation using accounting techniques. Primarily intended for those specializing in accounting.

304 Intermediate Accounting (4)

Prereq: 303 and perm of department (normally an average of 2.5 or better in accounting courses will mean acceptance). (fall, winter, spring) Preparation and analysis of accounting statements; special problems in accounting for current, fixed, and intangible assets, for liabilities and for corporate net worth; funds and reserves; and investments.

305 Intermediate Accounting (4)

Prereq: 304. (fall, spring) Continuation of 304. See 304 for description.

310 Cost Accounting (4)

Prereq: 102. (fall, winter, summer) Manufacturing cost determination under job-order and process systems. Establishment of standard costs, budgets, and analysis of variances.

311 Industrial Accounting (4)

Prereq: 101, 102. Primarily for nonaccounting majors. Objective to explain how accounting data can be interpreted and applied by management in planning and controlling business activities. Major purpose to show how accounting data can help solve problems confronting management. Attention also given to use of accounting data by investors, potential investors, and lenders. Concentration on use of data rather than collection and presentation.

317 Federal Income Taxes (4)

Prereq: 101 and 217. (winter, spring) Continuation of 217 with emphasis on details of federal income tax as it applies to individuals and special provisions which apply to corporations.

340 Advanced Cost Accounting (4)

Prereq: 310. (spring) Analysis of relevant costs for decision-making including nonmanufacturing costs. Current cost accounting topics.

345 Accounting Systems and Internal Control (4)

Prereq: 303 and QM 200. (winter) Systems approach to data collection, classification, and dissemination.

347 Tax Research (4)

Prereq: 317. (spring) Advanced tax problems of individuals, partnerships, and corporations with emphasis on tax research and research methodology.

406 Advanced Accounting (4)

Prereq: 305. (fall, winter) Problems peculiar to partnerships, receiverships, fiduciaries, installment sales, consignments, insurance, estates and trusts; compound interest applications; governmental accounting; branches, consolidations, and mergers and foreign exchange.

407 Advanced Accounting (4)

Prereq: 305. (spring) Seminar in current topics.

451 Auditing Principles (4)

Prereq: 24 hrs of accounting. (fall, spring) Purposes and scope of audits and examinations; audit principles and procedures; audit reports and certificates.

491 Seminar (3, 4 or 5)

Prereq: perm. Selected topics of current interest in accounting area.

497 Independent Research (1-15)

Prereq: perm. Research in selected fields of accounting under direction of faculty member.

498 Internship (1-4)

Prereq: perm. (fall, winter, spring, summer)

ACCOUNTING TECHNOLOGY

The following courses for the AAB program in accounting technology are available only on the Lancaster campus.

This program is currently under revision. Check with the regional campus program director for up-to-date information.

103 Financial Accounting Procedures (3)

(fall) Application of fundamental principles to personal service enterprise and mercantile enterprise, with illustrations of double-entry mechanism; procedures of journalizing and posting; accounting for cash, merchandise, notes and interest, revenue and expense; financial statement preparation, including adjusting and closing procedures.

104 Financial Accounting Procedure (3)

Prereq: 103. (winter) Consideration of accounting procedures for purchases, sales (including installment and consignment sales), inventory, prepaid expenses, tangible long-lived assets; accounting procedures for owners' equity in single proprietorship, partnership, and corporation; year-end worksheet procedure; annual report including income statement, balance sheet, and statement of changes in financial position; interim statements.

105 Financial Accounting Procedures (3)

Prereq: 104. (spring) Consideration of accounting procedures for corporate form of organization including organization and management, corporate records, capital stock transactions, corporate earnings, corporate bonds; accounting procedures for investments and long-lived intangible assets, branch operations, voucher systems, manufacturing businesses, financial statement analysis.

106 Financial Accounting Procedures (3)

Prereq: 104, taken concurrently with 105. (spring) Data collection procedure, working paper procedure, and financial statement procedure for service enterprise, mercantile enterprise, and manufacturing enterprises.

203 Tax and Governmental Reporting Procedures (4)

Prereq: 106. (fall) Consideration of data sources, forms, and filing requirements for payroll taxes, income taxes, withholding taxes, FICA, sales taxes, unemployment reports, and a wide variety of other specialized local, state, and federally required reports and procedures.

204 Electronic Data Processing Accounting Procedures (4)

Prereq: 106. Consideration of impact of computer and other electronic data processing devices on accounting procedures, including use of specialized machines and programs.

205 Manufacturing Accounting I (4)

Prereq: 106. (winter) Data collection procedures for manufacturing firms for actual, normal, and standard job order cost accounting systems, including methodology and data requirements for determination of standards.

206 Manufacturing Accounting II (4)

Prereq: 205. (spring) Data collection procedures and reports for manufacturing firms for actual, normal, and standard process cost accounting systems including methodology of allocation of service department costs.

AEROSPACE STUDIES

The Department of Aerospace Studies offers two programs either of which leads to a commission as a second lieutenant in the United States Air Force. The four-year program is designed for students who can begin Air Force ROTC with the fall quarter of their freshman year and complete aerospace studies requirements by their date of graduation. Students taking the four-year program begin by enrolling in ASt 100- or 200-level courses, whichever is scheduled in the course catalog. The ASt 100 and 200 courses are taught on an alternate-year basis. Out-of-sequence courses can be scheduled by arrangement with the Department of Aerospace Studies.

The two-year program is designed for students unable to take Air Force ROTC during their first two years of college. It is similar to the last two years of the four-year program. Students interested in this program will not schedule Air Force ROTC during their first two years; however, they should consult the chairman of aerospace studies during their freshman year (or, in any event, not later than fall quarter of the sophomore year) for instructions regarding application for this program.

Entry into the Professional Officer Course (ASt 300 and 400 series) is based upon a best-qualified selection process. Completion of the General Military Course (ASt 100 and 200 series) does not guarantee entry into the Professional Officer Course (POC), but makes one eligible to compete for acceptance into the POC. After achieving commissioned status, the officer serves a minimum of four years active duty with the United States Air Force. For further information contact the Chairman of Aerospace Studies, Lindley Hall.

101 Strategic Offensive Forces (1)

(fall) Doctrine, mission, and organization of the United States Air Force and U.S. strategic offensive forces. 1 hr of academics and 1 hr of leadership lab each wk.

102 Strategic Defensive Forces (1)

(winter) U.S. defensive forces, their mission, function, and employment of nuclear weapons, civil defense, aerospace, and missile defense. 1 hr of academics and 1 hr of leadership lab each wk.

103 U.S. General Purpose Forces (1)

(spring) U.S. general purpose and aerospace support forces, mission, resources, and operation of tactical air forces, with special attention to limited war and review of Army, Navy, and Marine general purpose forces. 1 hr of academics and 1 hr of leadership lab each wk.

201 Development of Airpower (1)

(fall) History and development of airpower in the United States. 1 hr of academics and 1 hr of leadership lab each wk.

202 Contemporary Aerospace Power (1)

(winter) Covers Air Force concepts, doctrine, and employment; how technology has affected growth and development of air power. 1 hr of academics and 1 hr of leadership lab each wk.

203 Current and Future Employment of Aerospace Forces (1)

(spring) Changing mission of defense establishment; how air power is employed in military, nonmilitary, and strategic operations. 1 hr of academics and 1 hr of leadership lab each wk.

301 Management — Concepts and Practices (3)

Prereq: GMC or perm. (fall) Human relations, personnel policies; junior officer administrative and staff responsibility; briefing for commissioned service. Continued leadership demonstration and practice. Continued development of communicative skills.

302 Military Professionalism and Leadership Theory (3)

Prereq: 301 or perm. (winter) Military professionalism, leadership theory, demonstration, and practice. Development of communicative skills.

303 Management Concepts and Practices (3)

Prereq: 302 or perm. (spring) Principles and functions of management. Continued leadership demonstration and practice. Continued development of communicative skills.

401 The Military and the American Society (3)

Prereq: 303 or perm. (fall) Study of military and professional soldier in a democratic society and the military as a socializing institution. Communicative skills and qualities of leadership.

402 Strategy and the Use of Force (3)

Prereq: 401 or perm. (winter) Evaluation of strategy and study of arms control, general and limited war. Continues communicative skills via student presentations and written reports. Emphasizes qualities and techniques of leadership.

403 American Defense Policymaking (3)

Prereq: 402 or perm. (spring) Organization and case studies in defense policymaking and bureaucratic decision making. Continues communicative skills and techniques of leadership.

AFRICAN STUDIES

See International Studies.

ANTHROPOLOGY

General Emphasis

Anthropology provides a *broad framework* by which human activities, adaptations, and changes may be interpreted meaningfully, both in time and in space. It is useful, not only to students of *social* and *environmental* studies, but to those interested in *journalism, film, photography, dance, linguistics, cross-cultural communications*, and other areas.

Preparation in Anthropology

Students who are interested in becoming professional anthropologists may prepare for graduate school in the Department of Sociology and Anthropology. The anthropology major program offers students training in the methods and results of cultural anthropology, physical anthropology, and archaeology.

Advising

Majors are *required* to select their *advisors* from among the anthropology faculty. As student interest shifts, the advisor may be changed to reflect new interests. An advisor will aid in the design of an individualized course of study. Nonanthropology courses can be declared as anthropology credit towards the major with permission from the advisor: for example an interest in ethnobotany may lead to botany courses counting as anthropology. Of the total hours required, however, no fewer than 36 hours must be in departmental anthropology courses. Students are encouraged to take courses *in fields* related to anthropology. Courses in botany, zoology, geology, geography, linguistics, international studies, mathematics, psychology, sociology, etc. may be recommended for students interested in particular anthropological specialties.

Course Requirements

For a major in anthropology:

| | Credit Hours |
|-------------------------------------|--------------|
| Anth 270 and 390 | 9 |
| 16 additional hours in anthropology | |
| courses at the 400 level | 16 |
| 28 additional hours in anthropology | |
| courses at any level | 28 |
| TOTAL | 53 |

270 Basic Concepts of Anthropology (5)

Basic concepts; nature of cultural diversity; evolution of sociocultural systems.

348 Enculturation (4)

Prereq: 270. Survey of ways of growing up in various cultures, emphasizing relationships between individual and culture.

350 Economic Anthropology (4)

Prereq: 270. Survey of economic arrangements found in various types of cultural systems, with emphasis on application of anthropological theory and method for understanding of particular systems.

351 Political Anthropology (4)

Prereq: 270. Cross-cultural survey of political ar-

rangements with emphasis on application of anthropological method and theory to political problems.

352 Paleoethnology (4)

Prereq: 270, 390. Introduction to the new archaeology in which goals, theory, and methods are directed toward reconstruction of extinct sociocultural systems rather than toward time-space distribution of archaeological materials.

366 Cultures of the Americas (4)

Prereq: 270. Survey of cultural diversity present in North, South, or MesoAmerica with emphasis on application of anthropological method and theory to understanding of particular sociocultural systems.

370 General Anthropology (5)

Sr terminal course in introductory anthropology. Not open to students who have taken 270.

371 Ethnology (4)

Prereq: 270. Cross-cultural survey of structure and process in various cultures; includes consideration of kinship, economics, politics, and ideology.

372 Cultures of the World (4)

Prereq: 270. Ethnographic sampling of similarities and differences in cultural systems found around the world and through time.

373 Perspectives in Anthropology (4)

Prereq: 270. Primarily for anthropology majors. Includes following areas of anthropological concern: nature of scientific inquiry, ethnology (historical school, structural-functional approach, evolutionism, culture, and personality), linguistics, archaeology, physical anthropology.

375 Culture and Personality (4)

Prereq: 270; psychology recommended. Interrelations between personality systems and cultural systems.

377 Peasant Communities (4)

Prereq: 270. Focuses on folk component of state societies.

381 Culture Areas of Sub-Saharan Africa (4)

Prereq: 270. Survey of cultural diversity present in Sub-Saharan Africa with emphasis on application of anthropological theory and method to understanding of particular sociocultural systems.

382 Prehistory of Europe (4)

Prereq: 270. Archaeological material of European cultures from Neolithic to early Middle Ages, principles of excavation, problems of analysis, and research.

385 Cultures of Southeast Asia (4)

Prereq: 270. Survey of cultural systems of island and mainland Southeast Asia.

386 Problems in Southeast Asian Anthropology (4)

Prereq: 270. Selected topics of current theoretical concern relating to Southeast Asia.

387 Cultures of Oceania (4)

Prereq: 270. Anthropological survey of Melanesia, Polynesia, and Micronesia.

388 Cultures of the Middle East (4)

Prereq: 270. Examination of traditional cultures of the Middle East (nomad, village, and urban) with emphasis on cultural adaptation to arid lands, Islamic institutions, and culture changes under the impact of western society.

390 Biology, Society, and Culture (4)

Introduction to biological and cultural evolution of man utilizing combined perspectives of physical anthropology and archaeology.

399 Readings in Anthropology (1-3, max 6)

Prereq: 270 and perm. Supervised readings in various fields of anthropology: archaeology, ethnology, linguistics, physical anthropology.

455 Seminar in Methodology and Field Research (1-4, max 8)

Prereq: 13 hrs and perm. Practical training in application of theoretical models to data in one of following sub-fields: archaeology, ethnology, physical anthropology. Primarily designed for anthropology majors.

457 Anthropology of Religion (4)

Prereq: 9 hrs. Survey of various aspects of religion in their cultural setting, with emphasis on use of anthropological theories for an objective understanding of religion.

458 Women: A Cross-Cultural Survey (4)

Prereq: 270. Cross-cultural survey of women with emphasis on factors determining roles and status of women in various types of cultural systems.

472 History of Anthropological Thought (4)

Prereq: 270, 390. In-depth examination of schools of anthropology as they have developed within various sub-fields at different times and places.

476 Culture Contact and Change (4)

Prereq: 9 hrs. Impacts of cultures upon one another: immediate and subsequent cultural adaptations.

478 Cultural Ecology (4)

Prereq: 13 hrs. Analysis of mutual and reciprocal relations between socio-cultural systems and other systems in their environment: ecosystems and biotic communities in which human populations are included.

490 Independent Research in Anthropology (1-10, max 10)

Prereq: open to srs only; 20 hrs anthropology and written perm prior to qtr in which study is begun. Individual research in anthropology in specific problem areas in which student has demonstrated ability and interest.

491 Primate Social Organization (4)

Prereq: 270. Introduction to primate ethology, with reference to development of cultural behavior.

492 Human Evolution (4)

Prereq: 390. Basic principles of synthetic theory of evolution, development of mammals, and evolution of primates, with emphasis on Pongidae and Hominidae.

494 Seminar in Anthropology (4-6, max 12)

Prereq: 13 hrs. Selected topics in anthropology.

496 Human Diversity (4)

Prereq: 390. Population genetics of human variation emphasized, particularly basic Mendelian concepts, anthropometric variation, and riation.

ARCHAEOLOGY

See Anthropology and Foreign Languages and Literatures (Greek and Latin Languages).

ART

100 Seeing and Knowing the Visual Arts (3)

Introduction to perception and understanding of meaning and organizational systems in traditional and contemporary visual arts. Viewed in contexts of their social and cultural backgrounds.

101 Two-Dimensional Design (4)

Studio projects exploring vocabulary of 2-dimensional design and dynamics of color systems. Introduction to processes and media.

102 Three-Dimensional Design (4)

Studio projects exploring vocabulary of 3-dimensional design and dynamics of mass, plane, volume, and space. Introduction to processes and media.

105 Introduction to Painting (4)

General survey of formal painting concerns, such as color and composition. 5 lec per qtr, studio emphasis.

115 Introduction to Ceramics (4)

Exploration of many ceramic techniques for familiarization with range of expression available through ceramic materials. Project, demonstrations, lectures, and discussions.

128 Introduction to Drawing (4)

Use of line, tone, perspective, texture in objective drawing. Motor control and seeing. Drawing tools.

131 Introduction to Sculpture (4)

Materials and techniques of sculpture. Traditional and modern concepts of sculpture explored through projects, lectures, and discussions.

141 Introduction to Printmaking (4)

Printmaking concepts and processes including silkscreen, lithography, etching, and relief prints. Projects, demonstrations, and discussions.

151 Introduction to Graphic Design (4)

Studio projects in lettering, typography, spatial design, illustration, and media with emphasis on graphic design as visual communication.

191 Introduction to Photography (4)

Introduction to art and techniques of photography, for majors and nonmajors. Students required to have suitable cameras and their own processing and enlarging accessories. 1 lec, 4 lab hrs.

192 Basic Photography (4)

Prereq: 191 or portfolio and perm. Continuation of 191. Approaches picture-making problems and advanced control of media for prospective majors.

205 Basic Painting (4)

Prereq: 12 hrs studio art or perm. Specific in-depth problems concerning developments of formal, technical, and conceptual attitudes.

206 Intermediate Painting (4)

Prereq: 205. Further problems investigating more recent developments in formal concepts.

207 Intermediate Painting (4)

Prereq: 206. Continuation of 206. See 206 for description.

215 Handbuilding (4)

Prereq: 12 hrs studio. 3-D form exploration using additive construction processes. Simple engobe, slips, and claybody formulations accompany these projects.

216 Introduction to Wheel Throwing (4)

Prereq: 215. Basic throwing skill training. Introduces ceramic student to creative possibilities of potter's wheel. Projects directed toward functional pottery utilizing decorative skills from Art 215.

217 Combined Techniques (4)

Prereq: 215, 216. Projects designed to expand information introduced in 215-216. Increase in scale and scope of individual solutions. Wheel throwing and handbuilding.

228 Basic Drawing (4)

Prereq: 12 hrs studio art or perm. Emphasis on techniques of drawing. Composition, proportion, and disciplined seeing, text may be used.

231 Sculpture — Wood (4)

Prereq: 12 hrs studio art or perm. Introductory course in direct carving.

232 Sculpture — Figure Modeling (4)

Prereq: 12 hrs studio art or perm. Figure studies in clay made directly from model. Slide presentations providing historical survey of figure modeling. Expression through form and gesture emphasized.

233 Sculpture — Metals (4)

Prereq: 12 hrs studio art or perm. Introductory course in metal fabrication and casting techniques.

236 Metal Design (4)

Prereq: 12 hrs studio art or perm. Introductory course in small metals.

241 Lithography (4)

Prereq: 12 hrs studio art or perm. Introduction to basic lithographic drawing and printing. Emphasis on application of techniques to image making.

242 Intaglio (4)

Prereq: 12 hrs studio art or perm. Introduction to basic techniques of intaglio printmaking including etching, drypoint, aquatint, and color printing. Emphasis on application of techniques to image making.

247 Relief Printing (4)

Prereq: 12 hrs studio art or perm. Basic techniques of relief printing from wood, metal, and assembled plates in black and white and color. Emphasis on application of techniques to image making.

248 Serigraphy (4)

Prereq: 12 hrs studio art or perm. Basic techniques of screen printing including hand-cut stencils, photographic stencils, and multicolor printing. Emphasis on application of techniques to image making.

251 Graphic Design — Typography (4)

Prereq: 12 hrs studio art or perm. Typography as a designer's tool and as communication. Emphasis on design of symbols and type faces.

252 Graphic Design — Three Dimensional (4)

Prereq: 12 hrs studio art or perm. Examination of 3-dimensional design problems with special attention to environment, packaging, and display.

253 Graphic Design — Illustration (4)

Prereq: 12 hrs studio art or perm. Pictorial imagery as a design tool. Problems in product, poster, magazine, and book illustration.

254 Graphic Design — Lettering (4)

Prereq: art education major or perm. Lettering as a design and communication element. History and techniques of lettering and calligraphy.

275 Fibers (4)

Prereq: 12 hrs studio art or perm. Spinning fibers, natural dyeing methods, and primitive weaving techniques.

276 Fibers (4)

Prereq: 275 or perm. Introduction to weaving on multi-harness floor looms.

295 Intermediate Photography (5)

Prereq: 192, portfolio review, and perm. Thorough presentation of craftsmanship of medium with emphasis placed on esthetic considerations. 3 lec, 4 lab. Majors expected to enroll concurrently in AH 237-239.

296 Intermediate Photography (5)

Prereq: 295. Black and white and color transparencies and slide show productions. Investigation of sequential imagery with sound synchronization. Continuation of 295.

297 Intermediate Photography (5)

Prereq: 296. Continuation of 296.

303 Watercolor (5)

Prereq: 207, 228. Techniques of water-soluble media, such as transparent watercolor, tempera, casein, etc.

304 Watercolor (5)

Prereq: 303. Continuation of 303. See 303 for description.

305 Advanced Painting (5)

Prereq: 207. Emphasis on personal creative problems. Student helped to develop personal goals and issues.

306 Advanced Painting (5)

Prereq: 305. Continuation of 305. See 305 for description.

307 Advanced Painting (5)

Prereq: 306. Continuation of 305-306. See 305 for description.

308 Figure Painting (5)

Prereq: 207 and 328. Painting from model.

309 Figure Painting (5)

Prereq: 308. Continuation of 308. See 308 for description.

314 Ceramic Science (5)

Prereq: 12 hrs studio, 217. Comprehensive investigation of ceramic materials, their function in clay and glazes, their reaction to firing temperatures, and techniques and approaches to them, both practical and empirical.

315 Ceramics (5)

Prereq: 217.

316 Porcelain (5)

Prereq: 315. Exploration of white and porcelainous clay materials, their effects on glaze, and their limitations.

317 Stoneware (5)

Prereq: 316. Stoneware as unique material in high-temperature reduction firing.

321 Drawing Workshop (4)

Prereq: 328 or perm. (not offered every quarter) Historical techniques of drawing — media, methods, and concepts. Such media as silver-point, pen and ink, etc.

322 Drawing Workshop (4)

Prereq: 321. Continuation of 321. See 321 for description.

328 Intermediate Drawing (4)

Prereq: 228. (not offered every quarter) Drawing from model. Proportion, structure, and form. Various media.

329 Advanced Drawing (4)

Prereq: 328. (not offered every quarter) Approach to personal imagery in drawing. Individual response to traditional and modern drawing attitudes.

331 Sculpture — Wood (5)

Prereq: 8 hrs sculpture, including 231. Intermediate course in woodcarving.

332 Sculpture — Figure Modeling (5)

Prereq: 8 hrs sculpture or perm. Figure studies in clay. To develop better perceptions of masses in space and their esthetic relationships. Expression through form and gesture emphasized.

333 Sculpture — Welding (5)

Prereq: 8 hrs sculpture, including 233. Advanced work in fabrication techniques involving gas and electric welding.

334 Sculpture — Fabrication (5)

Prereq: 8 hrs sculpture or perm. Investigation of joining and fastening techniques; additive sculptural processes; use of power equipment and hand tools aid in production of sculpture. To develop sensitivity for sculptural ideas.

336 Metal Design (5)

Prereq: 236. Intermediate course in small metals.

337 Furniture as Sculpture (5)

Prereq: 8 hrs sculpture or perm. Woodworking sculpture techniques applied to furniture design as medium for visual expression. Methods of furniture construction including machine woodworking and joinery. Examination of utilitarian design, furniture types and purposes, human factors, and esthetics of functionalism.

341 Advanced Printmaking (5)

Prereq: 8 hrs printmaking. Supervised studio experience in printmaking media of student's choice (intaglio, lithography, relief and/or serigraphy); includes demonstration and lec on related topics. Emphasis on development of techniques and concepts of printmaking.

342 Advanced Printmaking (5)

Prereq: 341. Continuation of 341. See 341 for description.

343 Advanced Printmaking (5)

Prereq: 342. Continuation of 341-342. See 341 for description.

351 Graphic Design — Typography (5)

Prereq: 251. Practical and experimental type design. Emphasis on typesetting, reproduction, and printing processes.

352 Graphic Design — Exhibit (5)

Prereq: jr rank. Exhibit and presentation as environmental design and communication. Emphasis on educational, museum, and commercial exhibit application.

353 Graphic Design — Illustration (5)

Prereq: 253. Continuation of 253.

354 Graphic Design — Media (5)

Prereq: 8 hrs of graphic design or perm. Time, motion, light, and sound as design and communication tools. Problems in design with film, slides, overhead projection, sound track, and video tape.

355 Film Animation (5)

Prereq: Film 361 or perm. Design problems in 16mm film animation. Basic methods and camera techniques.

360 Art for Elementary Teachers (6)

Prereq: jr rank. To provide future elementary teacher with comprehensive understanding of nature of art materials and children's art work.

375 Fibers (5)

Prereq: 276 or perm. Introduction to basketry and crochet forming methods and 3-dimensional woven construction techniques.

376 Fibers (5)

Prereq: 375. Fabric manipulation methods, stitchery, and resist dyeing techniques on fabric and fibers.

391 Photographic Arts (5)

Prereq: 297, review of 297 portfolio and perm. Individual problems and seminars. Emphasis on assimilation of creative and technical aspects of black and white photography.

392 Photographic Arts (5)

Prereq: 297, portfolio review, and perm. Individual problems and seminars. Emphasis on readings in philosophy of photography.

393 Photographic Arts (5)

Prereq: 297, portfolio review, and perm. Individual problems and seminars. Emphasis on view camera techniques.

397 Photographic Communications (5)

Prereq: portfolio review and perm. Structured work in newspaper photojournalism.

398 Photographic Communications (5)

Prereq: portfolio review and perm. Structured work in magazine photography.

399 Photographic Communications (5)

Prereq: portfolio review and perm. Structured work in documentary photography.

400 Senior Seminar in the Visual Arts (4)

Prereq: perm. Interdisciplinary course designed to deal with professional issues beyond those pertinent to specific media, to enrich experience in various areas and professional levels and to permit valuable exchange of information on current issues in art world.

401 Painting Practicum (3)

Prereq: sr rank and perm. Preparation for senior presentation and portfolio.

405 Senior Painting Studio (5)

Prereq: 307. Advanced problems in painting.

406 Senior Painting Studio (5)

Prereq: 405. Continuation of 405. See 405 for description.

407 Senior Painting Studio (5)

Prereq: 406. Continuation of 405-406. See 405 for description.

410 Ceramics Practicum (3)

Prereq: sr rank and perm. Preparation for senior presentation and portfolio.

415 Primitive Techniques (5)

Prereq: 317. Application of wheel-thrown and hand-built objects to special effects and limitations of raku, pit, wood, sawdust, or saggar firing.

416 Ceramics (5)

Prereq: 415.

417 Ceramics (5)

Prereq: 416.

418 Glass (5)

Prereq: sr rank and perm.

419 Glass (5)

Prereq: 418 and perm.

428 Advanced Drawing (4)

Prereq: 329. (not offered every quarter) Continuation of 329. See 329 for description.

429 Advanced Drawing (4)

Prereq: 428. Continuation of 329 and 428. See 329 for description.

430 Sculpture Practicum (3)

Prereq: sr rank and perm. Preparation for senior presentation and portfolio.

432 Sculpture — Figure Modeling (5)

Prereq: 332. Advanced work in figure modeling.

433 Sculpture — Metals (5)

Prereq: 233. Advanced casting techniques.

434 Sculpture — Fabrication (5)

Prereq: 8 hrs. See 334. Further investigation of sculptural ideas.

436 Metal Design (5)

Prereq: 336. Advanced course in small metals.

438 Sculpture — General (5)

Prereq: sr rank. Contemporary issues in sculpture.

440 Prints Practicum (3)

Prereq: sr rank and perm. Preparation for senior presentation and portfolio.

441 Advanced Printmaking (5)

Prereq: 341-443 to be taken in sequence. See 341. Emphasis on personal and professional development.

442 Advanced Printmaking (5)

Prereq: 441. Continuation of 441. See 441 for description.

443 Advanced Printmaking (5)

Prereq: 442. Continuation of 441-442. See 441 for description.

450 Design Practicum (3)

Prereq: sr rank and perm. Preparation for sr presentation and portfolio.

451 Graphic Design — Senior Studio (5)

Prereq: 27 hrs of graphic design or perm. 2- and 3-dimensional graphic design with emphasis on professional and creative solutions. Problems in research and production.

452 Graphic Design — Senior Studio (5)

Prereq: 451 or perm. Design problems carried

through all professional stages. Examination of design in context of its various applications.

453 Graphic Design — Senior Studio (5)

Prereq: 452 or perm. Emphasis on individual problems and individual professional orientation. Portfolio preparation and presentation. Production of brochure and preparation of resume.

461 Art Experiences in the Elementary School (3)

Prereq: jr rank.

462 Art Teaching in the Secondary School (3)

Prereq: jr rank. To prepare student for realities of secondary school art program environment, physical and intellectual as well as emotional. To develop positive, constructive attitudes and knowledgeable teaching skills.

475 Fibers (5)

Prereq: 376 or perm. Advanced off-loom methods. Sprang, netting, and single-element joinery.

476 Fibers (5)

Prereq: 475 or perm. Individually designed projects on or off loom.

480 Individual Problems (1-5)

Prereq: perm. Projects, ideas, or explorations that cannot reasonably be made within regular course structures. Requires perm of faculty member prior to registration.

481 Individual Readings (1-5)

Prereq: perm. Reading and research related to studio work. For projects not reasonably part of structure of regular studio courses. Requires consent of faculty member prior to registration.

490 Photography Practicum (3)

Prereq: sr rank and perm. Preparation for sr presentation and portfolio.

491 Advanced Photographic Arts (5)

Prereq: 393, portfolio review, and perm. Individual problems and seminars. Formerly Art 495.

492 Advanced Photographic Arts (5)

Prereq: portfolio review and perm. Individual problems and seminars. Formerly Art 496.

493 Advanced Photographic Arts (5)

Prereq: portfolio review and perm. Individual problems and seminars. Formerly Art 497.

494 Advanced Publications Photography (5)

Prereq: portfolio review and perm. Work in photographic communications, especially newspapers and magazines.

495 Advanced Publications Photography (5)

Prereq: portfolio review and perm. Work in photographic communications.

496 Advanced Publications Photography (5)

Prereq: portfolio review and perm. Work in photographic communications.

497 Advanced Photoillustration (5)

Prereq: portfolio review and perm. Investigation of tools and uses of applied photography and special problems of illustration.

498 Advanced Photoillustration (5)

Prereq: portfolio review and perm. Investigation of tools and uses of applied photography and special problems of illustration.

499 Advanced Photoillustration (5)

Prereq: portfolio review and perm. Investigation of tools and uses of applied photography and special problems of illustration.

ART HISTORY

211 History of Art (3)

General survey of western sculpture, painting, and architecture from prehistoric times to Early Christian and Byzantine artistic developments which began in the 3rd century A.D.

212 History of Art (3)

Continuation of 211 survey, beginning with the Migration Period of Europe (4th century A.D.) and proceeding to 16th century.

213 History of Art (3)

Conclusion of art history survey sequence, continuing with developments of 17th century Europe to present.

237 History of Photography (3)

Prereq: soph rank or perm. History of development of photography as an art, a science, and an industry. Study of leading photographers and their contributions to development of the art.

238 History of Photography (3)

Prereq: 237. Continuation of 237. See 237 for description.

239 History of Photography (3)

Prereq: 238. Continuation of 237-238. See 237 for description.

320 Greek Art (4)

Prereq: 211-213 or perm. Specific developments in period between Minoan/Helladic cultures and those of Alexandrian Empire.

321 Roman Art (4)

Prereq: 211-213 or perm. Motifs and concepts ranging from Etruscan artifacts through Hellenistic to advent of Constantine.

322 Medieval Art (4)

Prereq: 211-213 or perm. Painting and sculpture from time of Constantine to that of Giotto.

323 Italian Renaissance Art (4)

Prereq: 211-213 or perm. Monuments, motifs, and their implications in Quattrocento Italy.

324 Northern Renaissance Art (4)

Prereq: 211-213 or perm. Monuments, motifs, and their implications in Renaissance France, England, and the Low Countries, and in Reformation Germany.

325 Art of High Renaissance and Mannerism (4)

Prereq: 211-213 or perm. Studies in art and theory of Cinquecento.

326 Baroque and Rococo Art (4)

Prereq: 211-213 or perm. Paintings and sculpture of 17th and 18th centuries.

327 Art of the 19th Century (4)

Prereq: 211-213 or perm. Arts and their development during and after Industrial Revolution.

328 Modern Art (4)

Prereq: 211-213 or perm. Specific movements and artists since 1900.

329 The Arts of the United States (4)

Prereq: 211-213 or perm. Specific problems and their patterns from Colonial Era.

330 The Arts of the Orient (4)

Prereq: 211-213 or perm. Selected studies of arts of India, China, and Japan.

331 Pre-Columbian Art (4)

Prereq: 211-213 or perm. Arts of early Mexico, Middle, and South America.

332 African Art (4)

Prereq: 211-213 or perm. Survey of traditional West African tribal art.

333 Ancient Near Eastern Art (4)

Prereq: 211-213 or perm. Motifs and monuments of Egypt, Mesopotamia, Assyria, and Babylonia.

340 Art and Ideas in Painting (4)

Prereq: sr rank, 211-213, and 1 art history course; or perm. Examination of the approach of painters of western art to their work. Non-historical in nature, using subject matter as framework and foundation with ideas and concepts concerning the creative act and artist/work of art relationship.

350 Principles of Architecture (3)

Prereq: 211, 212, 213. Introduction to styles, theories, and structural principles of architecture.

351 Ancient Architecture (3)

Prereq: 211, 212, 213. Survey of architectural monuments and their historical settings in Near East, Egypt, Greece, and Rome.

352 Medieval Architecture (3)

Prereq: 211, 212, 213. Survey of architectural monuments and their historical setting in early Christian, Byzantine, Romanesque, and Gothic periods.

353 Renaissance and Baroque Architecture (3)

Prereq: 211, 212, 213. Survey of architects and monuments from 15th through 18th century.

354 19th and 20th Century Architecture (3)

Prereq: 211, 212, 213. Survey of architects and monuments from historical revival styles through latest stylistic trends.

360 Seminar in Art Historiography (4)

Prereq: advanced work in art history or perm. An investigation of the various methodological approaches to the study of art.

480 Individual Problems (1-6)

Prereq: perm. Projects, ideas, or explorations that cannot reasonably be made within regular course structures. Requires perm of faculty member prior to registration.

481 Individual Readings (1-6)

Prereq: perm. Reading and research in art history, which cannot reasonably be made within regular course structures. Requires perm of faculty member prior to registration.

ASTRONOMY

100 Survey of Astronomy (3)

(on demand) Nontechnical course requiring no phys-

ics or mathematics background. Topics covered: risings and settings of sun, moon, and stars for various latitudes; causes of seasons; learning to know constellations; physical properties of planets; life on other planets; comets, meteors, and meteorites; physical properties of sun and stars; origin and evolution of stars; structure of our galaxy; pulsars; quasars; other galaxies; expanding universe; theories of cosmology. Also listed as PSc 100.

100B The Universe (3)

Designed for nonscience major with minimal mathematical background. Descriptive study of astrophysical universe. Fundamental concepts and physical principles; life cycle of stars; explanation of recent findings including pulsars, quasars and black holes, theories of cosmology describing beginning and end of our universe. Other possible topics include UFOs, space exploration and possibility of extraterrestrial life. Also listed as PSc 100B.

100D Moons and Planets: The Solar System (3)

Look at solar system, sun, moons, and planets, through eyes of modern science. Space program, Apollo to Viking, and what we have learned from it. Selected readings and NASA films. 3 lec. Also listed as PSc 100D.

300 The Solar System (3)

Prereq: mathematics through trigonometry, and elementary physics. Apparent motions of sun, moon, planets, and stars. Relations between apparent positions of celestial objects and time, latitude, and longitude of observer. Principles of navigation. Temperatures, atmospheres, and surface conditions of other planets. Life on other planets.

301 Sun and Stars (3)

Prereq: 300. Review of radiation laws as needed in astronomy. Physical properties of and energy generation in the sun. Origin and evolution of solar system. Methods of determining diameters, temperatures, densities, and composition of stars.

302 Stars and Galaxies (3)

Prereq: 301. Variable stars, novae, supernovae, pulsars, neutron stars, and black holes. Origin and evolution of stars. Structure of our galaxy. Physical properties of other galaxies, and their arrangement in space. Quasars. Expansion of the universe. Theories of cosmology.

310 Astronomy Laboratory (1)

Prereq: 300 or with 300. Observational work at telescope. Computations of coordinates of celestial objects. Practice with marine sextant and aviation octant. Solution of navigation problems.

311 Astronomy Laboratory (1)

Prereq: 300 and 310. Observational work at telescope, with emphasis on moon and planets. Measurement of astronomical photographs and spectrograms. Reduction of astronomical data.

312 Astronomy Laboratory (1)

Prereq: 301 and 311. Observational work at telescope, with emphasis on stars, nebulae, and galaxies. Measurement of stellar spectrograms for determination of radial velocity. Spectroscopic measurement of velocities of recession of galaxies and quasars.

320 Elements of Navigation (2)

Prereq: 300, mathematics through trigonometry. (on demand) Basic navigational astronomy; use of sextant and nautical almanac; line-of-position method as used in air and surface navigation.

350 Celestial Mechanics (4)

Prereq: 301, differential equations. (on demand) Differential equations of planetary motion; vector treatment of 2-body problem; determination of orbits of planets and satellites.

450 Studies in Astronomy (1-6, arranged)

Prereq: 302.

AVIATION

Due to changes in economic conditions, it may be necessary to adjust the special fees for flight courses. Current information can be found in the Schedule of Classes.

110 Private Pilot Ground Instruction (4)

40 hrs ground instruction covering radio navigation, meteorology, FAA regulations, communications, aircraft construction, and performance data to meet requirements of private pilot's written exam. 2 lec.

240 Private Pilot Flight Course (4)

Prereq: FAA written passed. 40 hrs flight training and related lectures including primary flight maneuvers and cross-country flying. Meets requirements for private pilot's certificate, 1 lec, 3 lab. Course fee \$900.

310 Commercial Pilot Ground Instruction (4)

Prereq: private pilot's certificate. 40 hrs ground instruction covering advanced radio navigation, meteorology, FAA regulations, aircraft construction, performance data, and instruments to meet requirements of commercial written exam. 2 lec.

340 Commercial Flight Course, Part I (4)

Prereq: private pilot certificate. 40 hrs flight training consisting mainly of cross-country. 3 lab. Course fee \$740.

343 Commercial Flight Course, Part II (4)

Prereq: private pilot certificate and 340 or perm. 35 hrs flight training consisting mainly of solo cross-country to build flying time toward higher rating, 5 hrs complex airplane time included. 3 lab. Course fee \$850.

350 Instrument Ground Instruction (4)

40 hrs ground instruction on flying solely by reference to instruments to meet requirements for instrument pilot written exam. Included are maneuvers, navigation, meteorology, radio procedures, and instrument interpretation. 2 lec.

400 Commercial Flight Course, Part III (4)

Prereq: commercial pilot certificate or perm. 35 hrs of instruction of flight by sole reference to instruments. 3 lab. Course fee \$690.

410 Fundamentals of Aviation for Teachers (4)

Prereq: 110 or perm. Comprehensive course covering aeronautical knowledge required of private pilot: navigation, weather, federal regulations, theory of flight, aircraft performance, radio communications and navigation, and fundamentals of instruction for teachers of aviation ground instruction courses.

420 Commercial Flight Course, Part IV (4)

Prereq: FAA written passed. 40 hrs of flight instruction including 10 hrs in complex airplane. 3 lab. Course fee \$1030.

430 Multi-Engine Flight Course (2)

Prereq: pilot's certificate or perm. 12 hrs of procedures with both engines operative, with one engine inoperative (feathered), single engine speeds, effects of airplane configuration on engine-out performance. Enroute operations, single engine approaches and landings. 2 lab. Course fee \$905.

440 Flight Instructor Ground Instruction (4)

Prereq: commercial pilot certificate or perm. 40 hrs review of all previous instruction with emphasis on how to instruct, and breakdown of maneuvers. Covers requirements for flight instructor written exam. 2 lec.

445 Flight Instructor Course (3)

Prereq: commercial pilot's certificate or perm. 20 hrs review of commercial course with emphasis on how to instruct and analysis of maneuvers. 3 lab. Course fee \$535.

450 Instrument Instructor Ground Instruction (3)

Prereq: instrument rating. 30 hrs review of instrument course with emphasis on how to instruct instrument flying. Covers requirements for instrument written exam. 2 lec.

455 Instrument Instructor Flight Course (3)

Prereq: instrument rating. 20 hrs of review of instrument course with emphasis on how to instruct on instruments. 3 lab. Course fee \$485.

460 ATP Ground Instruction (4)

Prereq: instrument rating and multi-engine rating. 40 hrs advanced course placing major emphasis on specific requirements and duties of airline transport pilots in accordance with Federal Aviation Regulations. Provides aeronautical requirements for airline transport pilot written exam. 2 lec.

470 ATP Flight Course (2)

Prereq: commercial pilot's certificate, multi-engine rating, and perm. 15 hrs taking practical and operational approach to problems that arise in planning and conducting air transport operations. 3 lab. Course fee \$1,245.

475 Internship in Aviation Operations (1-15)

Prereq: perm. Internship program in selected fields of aviation under direction of faculty member. Specific fields could be: (1) serving as intern in commercial flight operation as copilot or as flight instructor; (2) serving as intern in airport operation as assistant to airport manager, or (3) special service flying such as medical supplies, fire-fighting, cloud seeding, FAA observers, etc.

BACTERIOLOGY

See Zoology.

BIOLOGY

See Botany or Zoology.

BLACK STUDIES

100 Practical Study Skills (3)

Provides student with techniques of effective study, comprehension and retention of material and offers opportunity for applying these skills in classroom.

Attention given to research techniques and use of library. Individual counseling provided for student with special academic needs.

101 Introduction to Afro-American Arts (2-5)

Comparative study of ideas and esthetic trends in Afro-American art from colonial slavery through contemporary black arts movement.

103 Introduction to Education I (5)

Designed to meet needs of students in any major area. Gives historical overview of field of education, contrasts and comparisons made between developments in education of blacks and masses in America. Emphasis on role of teacher specifically in rural and inner city schools. Introduction to innovative issues and approaches in our educational institutions today.

104 Introduction to Education II (5)

Designed primarily for persons preparing to teach in middle or high schools. Upper elementary grades dealt with in terms of transitional steps involved in moving from one period of development to another. Areas include: teaching as a profession, financing public education, curriculum planning and development, innovations in education. Cooperation between school, parent, and community stressed. Development and functions of schools discussed.

106 Introduction to Afro-American Studies (5)

Interdisciplinary course designed to introduce student to field of Afro-American studies. Focuses upon subject matter, scope, assumptions, and methods of various academic disciplines that are constituent parts of Afro-American Studies Program, and seeks to show how these disciplines collectively contribute to broadest understanding of Afro-American experience and, thus, of general American experience from a black perspective.

109 Introduction to Afro-American Literature I (5)

Survey of Afro-American literature from 1760 to 1910. Student introduced to major writers, themes, and genres of period, as well as to subliterary materials of period that shed light on Afro-American experience. Student also introduced to variety of critical approaches, techniques, and methods for studying literature.

110 Introduction to Afro-American Literature II (5)

Continuation of 109. Deals with Afro-American literature from 1910 to 1940, with major focus on Harlem Renaissance. Concentration on works of Johnson, McKay, Toomer, Cullen, Hughes, Hurston, Wright, et al.

111 Introduction to Afro-American Literature III (5)

Continuation of 110. Survey of Afro-American literature from 1940 to present. Concentrates upon major writers and movements of period. For example, Ellison, Baldwin, John Williams, Robert Hayden, Amiri Baraka (LeRoi Jones), Ishmael Reed, Ernest Gaines, and others given considerable attention, as will Black Arts Movement and Black Esthetics.

113 Literature of Africa: Introduction (5)

Survey of literature by African authors. Deals with expression of African experiences via novels, plays, and poetry.

119 Introduction to Black Media (3)

Historical analysis of images of blacks in cinema, radio, and television programming; origin and development of stereotypes; relationship of these images to societal developments; examination of alternatives.

153 History of Colonialism (5)

Historical-social analysis of development of colonialism in Africa: how colonialism led to underdevelopment of Africa, and review of ideological justification of this phenomenon. Special focus placed on development of colonialism in 19th and 20th centuries up to Year of Africa (1960). Specific attention given to ideological contribution of Frantz Fanon to colonial situation. Felicitous combination of books in fields of history, psychology, economics, and literature so student will obtain integral picture of colonial period.

201 History of the Black Worker (5)

Analysis of historical role of black labor force in American economy, with emphasis on pattern of relationships between black workers and general organization of American labor movement.

210 Afro-American Literature (5)

Extensive examination of Afro-American authors in variety of genres—novels, plays, poetry. Influence of larger American society as reflected within literature of black experience. Cultural and literary images of black experience and development of black literary tradition.

**211 Comparative Black Literature:
The Cultural Matrix (5)**

Will survey techniques for evaluating Black World literature—from Africa, Caribbean, and U.S. Systematic development of interconnections of themes, techniques, and esthetic views found in works of various black writers focal point of class discussion. Aspects of culture (social, political, and economic) surveyed for their impact on literature. Critical readings on comparative literature used as supplementary materials. Relationship of literature—both form and function—to society discussed.

221 Basic Political Economy (5)

Exploration of theories of political policies and economic processes, their interrelations, and their influence on socio-economic character of black community.

**251 Introduction to Afro-American
History 1526-1865 (5)**

Survey of key economic, political, ideological, and social elements that shaped destinies of black people in United States from 1526-1865.

**252 Black Community Development,
1865 to the Present (5)**

Survey of key economic, political, ideological, and social elements that have shaped destinies of black people in United States from 1865 to present.

253 History of Neo-Colonialism (5)

Attention paid to historical-social analysis of neo-colonialism . . . : how new methods and maneuvers used to exploit labor and resources in 20th century. Focus on Africa, although students' areas of interest will also be accommodated.

254 History of Injustice in the United States (5)

Critical analysis of problems of injustice in United States. Special attention given to 1) education, 2) voting, 3) social services, 4) fair housing, and 5) legal system.

264 Comparative Study of Injustice (5)

Comparative analysis of significant forms of injustice in/between selected developed and underdeveloped countries.

300 Urban Violence (5)

Systematically examines empirical and theoretical literature on urban violence, particularly riots during 1960s.

301 Current Issues in Education (5)

Designed to meet needs of both education majors and noneducation majors. Educational processes in relation to contemporary society, cultural forces, and institutions helping to shape education; some resulting issues and problems. Examples: Desegregation—who's taking a ride; selection of textbooks; public school financing; deschooling or open schools; neighborhood school concept; citizen participation, etc. School as institution of education, its guiding practices. Role of teachers will provide staging point for this seminar. Visits made to schools at all levels to see implementation of some innovative concepts. (May be taken as graduate course, for 3 hrs credit, with additional research project, if required.)

302 Politics of Language (5)

Interdisciplinary approach to interrelationship between historical experience and socio-cultural expression in Africa, America (especially U.S.A.) and Europe (especially England/Great Britain). Examination of impact of (and changes in) vocabulary of art, literature, politics, religion, and social interaction.

323 Black Politics in the United States (4)

Provides systematic analysis of impact of Black Liberation Movement on U.S. political processes, beginning historically with role of slave revolts and encompassing social, economic, and political dimensions of black community. Conceptual framework employed based on community power studies. Lectures and readings will also include relationship between concept of black power and rise of black politics as vehicle for social change.

**331 History of Afro-American Music I
Slavery - 1926 (3-5)**

Socio-historical examination of Afro-American music and its role in shaping American music. Recordings and guest lecturers used as integral parts of course. This section examines spirituals, rural blues, ragtime, and early jazz.

**332 History of Afro-American Music II
1926 - present (3-5)**

Socio-historical analysis of Afro-American music, its role in shaping modern American music. Recordings and guest musician/lecturers used as integral part of course. Examines the big band era, urban blues, bebop, rhythm and blues, hard bop, black classical composers, contemporary popular, and avant garde musics.

341 Afro-American Personality (5)

Prereq: Psy 101. Examination of organization and structure of Afro-American personality within American and African socio-psychological contexts. Special emphasis on various forces which shape Afro-American personality.

342 Teaching Techniques of the Inner City (5)

Provides instructional experiences which allow student to develop skills in using systematic instruction in inner-city schools by permitting each student to

demonstrate successfully his or her proficiency in use of various teaching strategies which will enhance learning in inner-city schools. Visits to selected metropolitan inner-city schools made throughout qtr.

350 The Black Community in the 20th Century (5)
Survey of black community's development during 20th century and its relation to development of larger American society over same period. Focus on post-WW II community processes.

355 Literature of West Africa (5)

Prereq: jr or sr rank. Intensive examination of representative words, authors, and movements. Using cultural and socio-political perspectives and springboards, course seeks to define style, structure, and mode and to indicate how these interrelate, help to determine meaning, form, etc. Authors like Achebe, Armah, Senghor, Soyinka, Laye and Oyono, Mongo Beti and Kofi, Awoonor, and Ama Ata Aidoo considered, to analyze *e.g.*, Negritude, phases in West African writing during last 30 yrs. Essays and critical literature given some attention.

356 Contemporary Afro-American Literature (5)

Focus is on Afro-American literature of 1960s and since. Concern with writers who emerged as major figures during this period. Attention also given to major literary, cultural, and esthetic developments that fashioned new favorability among black writers and to traditions of which literature is part.

357 Caribbean Literature: Major Authors and Movements (5)

Survey of literature in English and translations written by Caribbean authors. Major themes and literary movements of Caribbean discussed: Negritude, Negritismo, ancestral imperative, search for identity, reordering of group images. Transcultural and syncretic elements discussed. Outside readings essential for class contributions.

358 Literature of South Africa (5)

Explores development of South African literature (poetry, prose-novels, autobiography, short stories, and drama) during last 25 yrs and while confining itself to writings of black writers of all complexions, examines how this literature reflects conditions of life of majority of South African population. Course entails vast landscape of structured background reading on history, politics, economics, and demography of South Africa and on esthetics of particular cultures.

360 Black Political Thought (5)

Analysis of basic tenets of black thought in U.S. Emphasis on theoretical dimensions of post-Civil War black social and political thinkers.

361 Racial and Ethnic Theories and Ethnic Politics (5)

Review of various theories of race. Critique of diverse definitions of ethnic groups. Due attention given to struggle against racism and its concomitant stimulation of healthy ethnic processes.

363 Problems of National Oppression (5)

Survey of various notions of nationalism and internationalism, concept of right-to-self-determination, rights of national minorities. Due attention paid to question of national culture, cultural nationalism and its opposite, cultural democracy.

402 The Black Child (5)

Designed to do in-depth study of black child, impact and effects of growing up black in America. Specif-

ically, course will deal with effects and role of school and family in creative adjustment of black child in predominantly white society. Primarily designed for prospective teachers, individuals planning to work or working in social service agencies, parents, and others interested in development of future generations of well-adjusted black students.

431 Psychology of Neo-Colonialism (5)

Examination of role of neo-colonialism in shaping social psychology of the oppressed. Special examination made of works of Fanon, *et al.*

440 Political Economy of Underdevelopment (5)

Systematic critique of various theories of economic development. Focus on particular theory of development. Comparative analysis of problems of Asia, Africa, and Latin America.

442 Problems of Third World Liberation (5)

Attention paid to political developments in Third World, *e.g.*, problems of democracy, political party formation, role of military regimes. Special emphasis on role of international bodies: U.N., Organization of African Unity, nonaligned movements given.

460 Literature Seminar (5)

Analysis of major black literary figures and themes, specific topics chosen each qtr. Black women authors: Examination of representative writings in variety of genres including short story, novel, autobiography, essay, poetry, and drama. Focus on relationship between literature and history as viewed by black female authors from Africa, Americas (North and South), and Caribbean. Caribbean novel: Attempt to deal with historic rise of Caribbean literature in English, French, and Spanish Caribbean and role of historic forces in shaping themes and content of these works. Emphasis on Césaire, Roumain, Lamming, Carpentier, Glissant, Naipaul, and Harris. Literature of Third World: Survey of various literary trends and authors of Third World countries (Africa, South America, Central America, etc.)

482 The Black Family (5)

Black family in America and its important role in development of ethnic differences, strengths, and strategies.

490 Independent Study (1-5)

Prereq: prior perm. Primarily for students interested in concentrated study in specific area in cooperation with advisor.

490E Political Economy of Urban Development (5)

Deals with laws of development of urbanization as it relates to anatomy of civil society. Especial focus placed on how current urban crisis is related to structural, cyclical, and general crisis of modern society. Political economy of urban ghetto both in United States and Third World will be singled out for special inquiry. New thought given to suburbanization process, the so-called "Post City Phenomenon," etc. Due focus placed on connection between urban crisis, racial problems, and possibility of American apartheid. Urbanization as a social process in Africa, Asia, and Latin America studied in a comparative way.

490I Conference on Racism (1-5)

Films and/or visiting speakers to illustrate and discuss aspects of imperialism, *e.g.*, racial discrimination and oppression, colonialism, war, environmental and social pollution, genocide, sexism, liberatory struggles, women's struggles for equality, minority struggles, minority cultures.

490N Black Perspectives (1-3)

Consists of on-campus and visiting lecturers presenting black perspective regarding social, economic, and political conditions of minority people.

BOTANY

For students interested in careers in botany, environmental biology, conservation, forestry, field biology, agronomy, horticulture, plant breeding, landscaping, marine biology, or cell biology, the Botany Department offers major programs with preparations in the following specializations: botany (major code 2111; 2116); forestry (major code 2112); environmental biology-botany emphasis (major code 2113); horticulture (major code 2114); field biology (major code 2115); agri-business (major code 2117); and cell biology (major code 2118). The Department of Botany also offers a botany/economics double major program and a botany major/business administration minor program (please see below). Also, for information relating to these programs and suggested schedules, please see the section entitled Special Curricula, in this catalog, under the College of Arts and Sciences.

The major requirements for the botany major are given below. For the A.B. degree, a minimum of 45 hours in departmental courses is required; for the B.S. degree, a minimum of 55 hours in departmental courses is required. Both A.B. and B.S. degree candidates must complete the following departmental courses: BOT 110, 111, 307, 308, 309, 310, 405, 424, 425, 431, 475.

Nondepartmental courses required for both the A.B. and B.S. degrees are: CHEM 141, 142, 143, 301, 302, 303, 304; ZOOL 151, 325; PHYS 201, 202, 203; and MATH 163 A, 163 B or MATH 263 A, 263 B. (The student should be certain to see an advisor before making a choice of math sequence.) Ten hours of English composition are required.

A double major in botany and economics is available. This program is designed to prepare biologists with a strong background in economics or conversely, economists with training in biology (for positions in business and governmental agencies). Prelaw students who plan careers in environmental law should find this program particularly suited for their goals. The A.B. degree in botany for the botany-economics double major program requires 45 hours in botany. The following courses are mandatory: 110, 111, 307, 308, 309, 310, 331 (or 431), 424, and 425. Additional courses from the following are recommended: 247, 248, 250, 311, 312, 313, 420, 426, 460, and 475. Nondepartmental courses required are: CHEM 141, 142, 143, 301, and 303. The A.B. degree in economics requires a minimum of 36 hours in economics, with the following courses mandatory: 101 or 301, 102 or 302, 303, 304, 381, and 385. Additional courses to fulfill the 36-hour requirement are recommended from the following: 305, 313, 316, 333, 351, 371, 380, 415, 430, and 482. The usual College of Arts and Sciences requirements must also be satisfied.

101 Principles of Biology (5)

For nonscience majors. Introduction to principles and concepts of life; interrelationships of structural, functional, reproductive, evolutionary, and ecological principles related to cells and organisms. (Same as Zool 101.) Credit not allowed for both 101 and 110. 3 lec, 2 lab.

H101 Principles of Biology (5)

Prereq: perm. Introduction to principles and concepts of life; emphasis and interrelationships of structural, functional, reproductive, evolutionary, and ecological principles related to cells and organisms. Designed for students of unusual curiosity who may not intend to follow a botanical, zoological, or medical curriculum. 3 lec, 4 lab.

102 Plant Biology (5)

Prereq: 101. For nonscience majors. Morphology and anatomy of seed plants as related to function. Survey of plant kingdom with emphasis on evolutionary relationships and life histories of selected plant groups. Credit not allowed for both 102 and 111. 3 lec, 2 lab.

103 Biology, Plants, and Man (4)

Prereq: 101 or Zool 101 suggested. Interrelationships of plants and man from both historical and modern points of view, origins of agriculture and civilization, tropical and temperate food plants, medicinal plants, drug plants, destruction of environment, and its ultimate effect on food plants. 3 lec, 1 disc.

110 Introduction to Botany (6)

(fall) *J. P. Mitchell, staff*. For botany and other science majors, preprofessional students, and science modular students. Introduction to fundamental biological principles as they affect plant science. Structure and function of cells and cell organelles, classical and molecular genetics, evolution and ecology. Credit not allowed for both 101 and 110 or for both 110 and Zool 101. 4 lec, 4 lab.

111 Introduction to Botany (6)

Prereq: 110 or Zool 150 or Bot 101 or Zool 101, the latter two with perm. For botany and other science majors, preprofessional students, and science modular students. Introduction to morphology, anatomy, life histories, and reproduction of vascular plants; survey of plant kingdom. Credit not allowed for both 102 and 111. 4 lec, 4 lab.

247 Vegetation of North America (4)

Prereq: 1 yr biological science. *W. Wistendahl*. Illustrated lecture course considering extensive plant formations with relationship to climate, soil, geographic formations, and influence of man. 3 lec.

248 Trees and Shrubs (Dendrology) (5)

Prereq: 111 or with perm, 102. (fall) *A. Blicke*. Collection, identification, nomenclature, classification, ecological relationships, and importance to man of native and introduced woody plants. 3 lec, 4 lab, supplementary field trips.

250 Economic and Horticultural Plants (4)

Prereq: 111 or with perm, 102. (fall) *R. Lloyd*. Introduction to origin, evolution, classification, identification, and uses of common horticultural and economic plants of world. 2 lec, 4 lab.

252 Basic Horticulture (4)

Prereq: 111 or with perm, 102. (fall) *J. Mitchell and W. Wistendahl*. Integration of principles of plant anatomy, morphology, physiology, and classification as they relate to growth responses and propagation of horticultural plants. 3 lec, 2 lab.

307 Biology of Algae and Mosses (6)

Prereq: 111 or with perm, 102. *J. Graffius*. Comparative studies of phylogenetic relationships, structural adaptations, and life histories of algae and bryophytes. 4 lec, 4 lab.

308 Morphology of Vascular Plants (6)

Prereq: 111 or with perm, 102. *G. Rothwell*. Comparative studies of phylogenetic relationships, structural adaptations, and life cycles of fern allies, ferns, gymnosperms, and angiosperms. 4 lec, 4 lab.

309 Plant Systematics and Ohio Flora (5)

Prereq: 111 or with perm, 102. (spring) *R. Lloyd*. Principles and methods of systematics and taxonomy; classification, floral biology, and evolution of flowering plants. Lab: identification and classification of spring flora. 3 lec, 6 lab, field trips.

310 Biology of Fungi (5)

Prereq: 111 or with perm, 102. *J. Cavender*. Morphology and life history studies of selected fungi of major groups; collection, isolation, and growth of selected fungi; fungal activities. 3 lec, 4 lab.

311 Biology and Human Affairs (3)

Prereq: 101 or 110 or Zool 101 or Zool 150. *Staff*. Discussions of impact of modern biological science upon human problems in biological, social, moral, and political areas.

312 Plant Anatomy (5)

Prereq: 111 or with perm, 102. *G. Rothwell*. Structure, development, and systematic anatomy of vascular plants. 3 lec, 3 lab.

313 Special Topics in Botany (1-6)

Prereq: perm. Current and/or special topics in botany.

313B Supervised Study (1-3)

Prereq: botany majors and perm.

313C Bioethics (4)

Prereq: jr or sr rank suggested. (fall) *L. A. Larson*. Discussions of contemporary bioethical issues in life sciences relating to genetics, birth control, behavior control, experimentation on human subjects, health care, death, dying, abortion, and general impact of science and technology on human values.

315 Greenhouse Management and Techniques (2)

Prereq: 252 and jr or sr rank; botany major, prehorticulture emphasis. *R. B. Rypma*. Techniques for growing and culturing common horticultural plants; experience in planting, fertilization, watering, fumigation, and using special equipment and chemicals utilized in typical greenhouse operations. Maintenance of equipment used in greenhouse operations. 4 lab.

331 Plant Cytogenetics (3)

Prereq: 111 or with perm, 102. *J. P. Braselton*. Chromosomal theory of heredity; meiosis and mitosis; variations in chromosome numbers, structure, and behavior; genetic principles in relation to plant breeding. Credit not allowed for both 331 and 431. 3 lec.

368 Teaching of Biology (3)

Prereq: 18 hrs biological sciences. High school biology instructional methods with emphasis on laboratory techniques. 4 lec-lab.

404 Undergraduate Research (2-6)

Prereq: 24 hrs botany and perm. Independent research under supervision of faculty member.

405 Discussions About Biology (2)

Prereq: 15-20 hrs botany and/or zoology. Discussions of experimental problems and approaches focusing on synthesis of ideas and principles in biological fields.

410 Plants and Soil (4)

Prereq: 111 or with perm, 102; jr or sr rank. *J. C. Cavender*. Soil as environment for plant growth; interrelationships between plant and soil; role of soil organisms in cyclic processes; building and maintenance of soil fertility; relationships between soil and health of plants, animals, and man. 3 lec, 2 lab.

412 Plant Pathology (5)

Prereq: Bot 310; jr or sr rank. *M. J. Jaffe*; *C. E. Miller*. Theory of pathogenesis; types of pathogens and plant diseases; significance of plant disease in nature and horticulture; plant disease control. 3 lec, 4 lab.

420 Fresh-Water Algae (5)

Prereq: 307 or 111 or 102, with perm. *J. Graffius*. Taxonomy and ecology of fresh-water algae, with emphasis on identification and distribution of common or representative genera. 3 lec, 4 lab.

424 Plant Physiology (6)

Prereq: 111 or with perm, 102; organic chemistry recommended. (winter) *L. Larson*. Basic chemical and physical aspects of plant processes; photosynthesis, respiration, mineral nutrition, transport, nitrogen metabolism, water relations, and growth. 3 lec, 4 lab.

425 Ecology (5)

Prereq: jr or sr rank. (fall) *I. Ungar*, *W. Wistendahl*. Effect of environmental factors as related to structure and function of plant communities. 3 lec, 4 lab, 1 Saturday field trip.

426 Physiological Plant Ecology (5)

Prereq: sr rank, and 425. (spring) *I. Ungar*, *W. Wistendahl*. Analysis and interpretation of ecological problems. 3 lec, 4 lab, 1 Saturday field trip.

431 Cytology (5)

Prereq: 10 hrs biological science, 1 yr chemistry, Zool 325 recommended. (winter) *J. Braselton*. Gross and fine structure of cells; mitosis; meiosis; morphology; chemistry; behavior of nuclear and cytoplasmic constituents. Credit toward major not allowed for both 331 and 431. 3 lec, 4 lab.

432 Microtechnique (5)

Prereq: sr rank and perm. *J. Braselton*. Preparation of plant tissues for microscopic study. 6 lab.

450 Honors in Biology (5)

Prereq: perm. *M. Jaffe*. Central ideas of modern biology with focus on several appropriate and current problems. Creative spirit in biology and in science as a whole. Similarities and differences of process of discovery in art, philosophy, and science. Primarily a reading course with discussions within the group.

460 Paleobotany (6)

Prereq: perm. *G. Rothwell*. Morphology and evolution of representative fossil plant groups. 3 lec, 6 lab.

475 Plant Speciation and Evolution (3)

Prereq: srs in botany, biology, zoology, or perm. *R. Lloyd*. Principles of evolution and speciation of flowering plants and ferns with emphasis on nature of plant species, divergence, isolation, hybridization, and nature of genetic systems therein. 3 lec.

494 Honors in Botany (2-15)

Prereq: perm. Undergraduate research by qualified students.

BUSINESS ADMINISTRATION

The general business major prepares professionals on a broad basis for a business career.

In addition to the BBA degree requirements, a student majoring in general business must complete 16 hours from College of Business Administration course offerings at the 300 or 400 level including at least one course from each of the following departments: accounting and quantitative methods, administrative sciences, economics, and management.

101 Business and Its Environment (4)

Nature of business and of economic, social, and political environments of the business firm. Emphasis on ways in which such surroundings affect business policies and operations.

111 History of American Business (4)

Origins and development of American business, emphasizing interrelations among business, the economy, the society, and the polity.

310 Production Management (4)

Prereq: jr rank. Emphasis on organization of production function and its relationship to other management and functional activities.

385 Multinational Business (4)

Prereq: perm. Study of the emergence of U.S. and non-U.S. multinational corporations, the scope of their operations, and their impact on the U.S. economy and consumer.

411 Production Planning and Control (4)

Prereq: 310. Quantitative techniques used in pre-manufacturing and control phases of production function.

412 Production Management Problems (4)

Prereq: 310. Analysis of production management problems in various industries and technologies.

431 Administration of Information Systems (4)

Prereq: sr rank or perm. Information networks and flows in organizations within total-systems framework.

445 Small Business Administration (4)

Place and role of small business firms; problems they face; opportunities involved and competitive considerations.

445 Studies in Business History (4)

Prereq: jr or sr rank. Case studies of American businessmen and firms since early colonial period, with emphasis on the 20th century. Lessons from the past are examined in relation to present sound business policy.

465 Technology and the Environment (4)

Prereq: jr or sr rank. Course is conceptual, interdisciplinary, and future-oriented. Variety of developmental problems and interaction of many technological environments including economic, sociopolitical, and market environments.

470 Administrative Policy (4)

Prereq: C.B.A., sr rank. Integrated application of core studies to nature, functions, and activities of actual business, analyzing objectives, policies and performance — all in relation to outside environment.

480 Ethics and Morality in Business (4)

Prereq: jr or sr rank. Combined moral philosophy

and personal responsibilities in business; critical analysis of contextual situation where provisional resolutions must be indirectly charted between ethical oughts and economic musts.

497 Independent Research (1-15)

Prereq: perm. Research in selected fields of business administration under direction of faculty member.

498 Internship (1-15)

Prereq: perm.

BUSINESS LAW

255 Law and Society (4)

Prereq: soph rank. Conceptual approach to origin, nature, structure, functions, and procedures of law with study of contractual relationships.

356 Law of the Management Process (4)

Prereq: 255 and jr rank. Conceptual framework of legal nature of organizations, particularly corporations and partnerships; rights, powers, and limits of managers in relation to duties and responsibilities to their organizations, owners, creditors, employees, customers, state, and public.

357 Law of Commercial Transactions (4)

Prereq: 255 and jr rank. Legal aspects of commercial paper, consumer credit, and bankruptcy.

360 Law of Health Care (4)

Prereq: soph rank or perm. Analysis of public-private constraints in foundation health agencies; experimentation and risk assumption; medical records; hospital liability; governmental regulations.

370 Environmental Law (4)

Prereq: jr rank or perm. Legal aspects of both individual environmental and societal environmental rights and duties with respect to constitution, private property, nuisance, negligence, statutes, regulatory agencies, and court decisions. Emphasis upon case study of federal, state, and local laws which shaped existing law and those which are likely to shape future legislative and administrative action.

442 Law of Property and Real Estate (4)

Prereq: 255 or perm. Property law as an institution and analysis of creation, transfer, and relation of various legal interests in property, especially land.

462 Law of Estates and Trusts (4)

Prereq: 255 or perm. Law as it pertains to decedents' estates including law of wills, intestate succession, and trusts.

475 Government and Business (4)

Prereq: 255 or perm. Governmental regulatory environment of business including analysis of statutes, court decisions, and rulings affecting policy decisions.

491 Seminar (3, 4 or 5)

Prereq: 255 or perm. Selected topics of current interest in business law area.

493 Readings (1-5)

Prereq: perm. Readings in selected fields of business law. Topics selected by students in consultation with faculty member.

497 Independent Research (1-5)

Prereq: perm. Research in selected fields of business law under direction of faculty member.

CHEMISTRY

A student who completes the requirements for the BS degree with a major in chemistry is eligible for professional status in the American Chemical Society in the minimum period of two years of professional experience after graduation. Completion of the minimum requirements for the AB degree with a major in chemistry does not qualify a student for certification to the society.

Students who wish to obtain state certification to teach high school chemistry *may* do so by completing the AB or BS degree programs, described in the following sections. To do so also requires completion of professional education and general education courses, as described in the *College of Education* section of this bulletin. Students pursuing this option not only need to maintain contact with their Chemistry Department advisors, but also need to obtain further information concerning certification requirements from the College of Education, Room 124, McCracken Hall. Students may also attain certification to teach high school chemistry through BSED programs with a major or minor in chemistry, as described in the *College of Education* section of this bulletin.

Students having foreign language requirements should take German or Russian. Those anticipating graduate study should be aware that graduate schools generally require a reading knowledge of one or more foreign languages; German and/or Russian is recommended. Details of the MS and PhD programs are given in the Graduate Bulletin.

A ten-dollar breakage card will be required for all chemistry laboratory courses, the unused portion of which will be refunded.

Completion of the AB or BS degree requirements automatically completes the requirement of the College of Arts and Sciences for at least nine hours in the major at the junior-senior level.

Chemistry Major

(Major Code #3311)

The major requirement for the BS degree includes the following: 141-142-143, 305-306-307, 308-309, 400, 453-454-455, 456-457, 476, 484-485, a course in biochemistry (489 or the full sequence 490-491-492), and three additional hours (other than 499) above 400. Extradepartmental requirements include Math 263A-B-C and Phys 251-252-253, which should be completed by the end of the second year. Eng 172 and 305 are also required. The BS degree program is chosen by students contemplating entrance into graduate programs in chemistry or employment in chemical industry.

The major requirement for the AB degree includes the following: 141-142-143, 301-302 or 305-306-307, 303-304 or 308-309, 325 or 484-485, 351 or 453-454-455, 476, and a course in biochemistry. A full year's work is required in at least one of the following fields: analytical (143-484-485), organic (305-306-307), or physical (453-454-455), or biochemistry (490-491-492). Eng 172 and 305 are also required.

BS in Forensic Chemistry

(Major Code #3310)

The BS degree in forensic chemistry is a four-year program. Forensic chemistry is the application of chemistry and related sciences to criminal investigation. The program prepares students to work in modern crime laboratories or other law enforcement agencies such as FDA, OSHA and EPA or to pursue graduate work in forensic chemistry or forensic sciences.

The major requirements for the degree include Chem 141, 142, 143, 301, 302, 303, 304, 351, 460, 483, 484, 485, 487, and one course to be selected from Chem 330, 400, 476, 479, 486, 489, 490, and 499. Extradepartmental requirements are Art 191; Eng 172 and 305; LET 100, 120, 140, 200, 250, and 260; Math 163A and 163B; Phys 201, 202, and 203; and Zool 150, 300, and 382.

Students interested in the program should consult the Director, Forensic Chemistry Program, Chemistry Department, for advance advising and schedule planning.

115 Preparation for College Chemistry (2)

(fall, spring) For students who have not had high school chemistry or have had inadequate preparation to enter regular chemistry sequence. Material presented includes metric system, atomic and molecular structure, formulas, equations, states of matter, and problem solving. Will not satisfy any part of natural science requirement of College of Arts and Sciences. 2 lec.

121 Principles of Chemistry (4)

(fall, winter, summer) Introduction to chemistry through study of atomic and molecular structure, periodic table, and states of matter. Recommended for students in College of Engineering and Technology (except chemical and mechanical engineers), College of Education (except BSED majors in biological science, chemistry and physics), and other programs requiring only 1 yr of chemistry. Credit not allowed for both 121 and 141. 3 lec, 3 lab.

122 Principles of Chemistry (4)

Prereq: 121 or perm. (winter, spring, summer) Introduction to descriptive inorganic chemistry through study of solutions and concept of equilibrium. Credit not allowed for both 122 and 142. 3 lec, 3 lab.

123 Principles of Chemistry (4)

Prereq: 122 or perm. (spring, fall) Designed to survey organic chemistry and biochemistry and their impact upon man's daily existence. 3 lec, 3 lab.

141 Fundamentals of Chemistry (5)

(fall, winter, summer) General course in fundamental chemical principles. Atomic structure, periodic classification, bonding, mole concept, and stoichiometry with problem solving. Recommended for majors in chemistry, chemical engineering, mechanical engineering, botany, zoology, medical technology, secondary education (BSED in biological sciences, chemistry and physics), and preprofessional (biological science) areas. Credit not allowed for both 121 and 141. 4 lec, 3 lab.

142 Fundamentals of Chemistry (5)

Prereq: 141 or perm. (winter, spring, summer) Introduction to thermodynamics and chemical equilibrium through study of solutions with problem solving. Credit not allowed for both 122 and 142. 4 lec, 3 lab.

143 Quantitative Analysis (5)

Prereq: 142 or perm. (spring, fall) Introduction to quantitative techniques to include volumetric and gravimetric methods of analysis. 3 lec, 1 recit, 3 lab.

301 Organic Chemistry (3)

Prereq: 123 or 143 or perm. (fall and summer) Designed for students who are not BS chemistry majors and who do not require a full-year course in organic chemistry.

302 Organic Chemistry (3)

Prereq: 301. (winter, summer) Continuation of 301. See 301 for description.

303 Organic Chemistry Laboratory (1)

Prereq: 301 or 305, or with 301. (fall, spring, summer) Designed for students who are not BS chemistry majors. 3 lab.

304 Organic Chemistry Laboratory (2)

Prereq: 303 and 302 or with 302. (winter, summer) Continuation of 303. See 303 for description. 6 lab.

305 Organic Chemistry (3)

Prereq: 143 or perm. Organic chemistry for chemistry majors and other students wishing to acquire a sound knowledge of classical and modern organic chemistry.

306 Organic Chemistry (3)

Prereq: 305. Continuation of 305. See 305 for description.

307 Organic Chemistry (3)

Prereq: 306. Continuation of 305-306. See 305 for description.

308 Organic Chemistry Laboratory (2)

Prereq: 306, or with 306. (winter) Synthesis, purification, and characterization of organic compounds. 6 lab.

309 Organic Chemistry Laboratory (2)

Prereq: 308 and 307 or with 307. (spring) Continuation of 308. See 308 for description.

325 Instrumental Methods of Analysis (4)

Prereq: 143. (winter) Analytical chemistry course for students not majoring in chemistry, which emphasizes application of instrumental methods to solution of problems in chemical analysis. 3 lec, 3 lab.

330 Introduction to Toxicology (4)

Prereq: 302 or 307 or perm. (winter) Introduction to chemical, clinical, environmental, and forensic aspects of toxicology, types of poisons, how poisons act, treatment of acute poisoning, and control of poisonous materials.

345 Chemistry of Photography (4)

Prereq: 122 or 142 and Art 207. (spring) Basic chemistry of modern and historical photographic and photomechanical materials and processes. 2 lec, 4 lab.

351 Physical Chemistry (4)

Prereq: Math 263B or perm. (fall) For premedicine, BSED, and AB chemistry majors. Topics include thermodynamics, thermochemistry, equilibrium, solutions, electrochemistry, and kinetics, with special emphasis on applications in life sciences.

400 Advanced Organic Laboratory (3)

Prereq: 307, 309. (spring) Advanced lab techniques and instrumentation. 6 lab.

420 Chemical Literature (3)

Prereq: 24 hrs, reading knowledge of German. Instruction in the use of chemical literature and application to scientific writing.

450 Principles of Quantum Chemistry (3)

Prereq: Math 263C or perm. (winter) Introduction to solution of problems concerning molecular structure and spectroscopy in terms of quantum theory.

453 Physical Chemistry (3)

Prereq: 143. Math 263C, Phys 253. (fall) Calculus-based study of thermodynamics with applications to chemical equilibria.

454 Physical Chemistry (3)

Prereq: 453. Continuation of 453. Thermodynamics of ionic solutions, electrochemical cells, and surfaces. Kinetic theory of gases. Chemical kinetics.

455 Physical Chemistry (3)

Prereq: 454. (spring) Continuation of 454. Quantum theory with applications to molecular structure, molecular and resonance spectroscopy including nmr and esr, statistical thermodynamics.

456 Physical Chemistry Laboratory (2)

Prereq: 351 or 453. Experimental determination of molecular weights, ionic velocities, composition of azeotropes and complex ions, equilibrium constants, phase rule diagrams, etc. Instrumental procedures include refractometry, polarimetry, viscometry, etc.

457 Physical Chemistry Laboratory (2)

Prereq: 456. Continuation of 456.

458 Chemical Thermodynamics (3)

Prereq: 455. (fall) Concepts of energy and entropy and their use in predicting feasibility and extent of chemical reactions.

460 Spectroscopic Methods in Organic Chemistry (3)

Prereq: 307, 455. (fall) Modern spectroscopic methods as employed in organic chemical research: NMR, IR, UV, ESR, and mass spectrometry.

471 The Physical Chemistry of Macromolecules (3)

Prereq: 454. (spring) Effects of structure and molecular weight on physical and chemical properties of macromolecules. Topics include molecular weight distribution, solubility, polymer conformation, different types of polymers, synthesis, and reactions. Both synthetic and natural polymers considered.

476 Modern Inorganic Chemistry (4)

Prereq: 351 or 453 or with 351 or 453. (fall) Considers relationship between physical and chemical properties of inorganic substances and nature of bonding and structures involved. 4 lec.

477 Synthetic Methods of Inorganic Chemistry (2-3)

Prereq: 476. (winter) Theoretical principles and practices of synthesis, purification, and characterization of inorganic substances. 1 lec, 3-6 lab.

479 Radiochemistry (4)

Prereq: 143 or perm. (winter) Applications of isotopes to problems in chemistry; safe handling of radioactive material; detection and determination of radiation. 2 lec, 4 lab.

480 Advanced Organic Chemistry (4)

Prereq: perm. (winter) Structural theory, stereochemistry, reactive intermediates, and reaction mechanisms.

483 Chemical Separation Methods (4)

Prereq: 143. (winter) Modern methods of separating components of complex mixtures with emphasis on operation and application to analytical chemistry. Topics include liquid-liquid extractions, partition chromatography, ion-exchange, gas-chromatography, high pressure liquid chromatography, exclusion chromatography, and electrophoresis. 3 lec, 3 lab.

484 Electrochemical Methods of Analysis (5)

Prereq: 351 or 453. (spring) Modern electrochemical techniques and instrumentation with emphasis on their applications in analytical chemistry. Topics include introduction to electronic circuits and operational amplifiers, potentiometry, specific ion electrodes, DC and AC polarography, pulse polarography, coulometry, chrono-coulometry, cyclic voltammetry, rapid scan voltammetry.

485 Spectrochemical Analysis (5)

Prereq: 351 or 453. (fall) Survey of spectrochemical instrumentation with emphasis on their operation and application in analytical chemistry. Topics include atomic absorption, atomic emission, molecular absorption and molecular emission and will cover emission-absorption phenomena in the X-ray, ultraviolet, visible, and infrared regions of electromagnetic spectrum.

486 Advanced Analytical Chemistry (4)

Prereq: 455. Fundamental principles of analytical chemistry; a rigorous treatment of equilibrium in aqueous and nonaqueous systems, precipitate formation, electrochemistry, stoichiometry, and volumetric methods of analysis.

487 Forensic Chemistry (4)

Prereq: 484 and 485. Survey chemical problems most frequently encountered in a crime laboratory and their currently acceptable solutions, as well as special techniques not covered in other analytical chemistry courses. 3 lec, 3 lab.

488 Chemical Instrumentation (4)

Prereq: 455. Fundamentals of electronics emphasizing circuitry in modern chemical instruments. 3 lec, 3 lab.

489 Basic Biochemistry (4)

Prereq: 302 or 307 or perm. (spring) Survey course, including introduction to biochemical concepts and techniques, metabolic pathways, and information storage and transmission, with emphasis on directions of current biochemical research.

489L Biochemistry Laboratory (2)

Prereq: with or following 489 or 491 or perm. (winter) Modern biochemical lab techniques including chromatography, electrophoresis, measurement of enzyme kinetics and oxidative phosphorylation, amino acid analysis, and calorimetry. 4 lab.

490 Introduction to Biochemistry (3)

Prereq: 302 or 307. (fall) Macromolecular structure of biomolecules.

491 Introduction to Biochemistry (3)

Prereq: 490. (winter) Bioenergetics, metabolism, and metabolic control systems.

492 Introduction to Biochemistry (3)

Prereq: 491. (spring) Complex integrated biochemical systems.

497 Forensic Chemistry Internship (3-10)

Prereq: sr rank in Forensic Chemistry Program and

perm. Supervised work in approved forensic science lab to gain practical experience. Oral and written reports required.

499 Undergraduate Research (as recommended)

Prereq: jr or sr rank with B average in chemistry or perm. Independent work for qualified upperclass chemistry majors.

CHINESE

See Foreign Languages and Literatures.

COMPARATIVE ARTS

Courses in introduction to fine arts and history courses in individual content areas.

This sequence of courses is provided for majors in the College of Fine Arts who wish to study the relationship of all the arts, and for all students in the University who wish to elect courses with the basic purpose of understanding their cultural heritage.

The entire sequence of courses will operate as full-year courses on a three-quarter sequence: three quarter hours of credit for each quarter for a total of nine quarter hours.

The courses service the following areas:

1. As humanities requirements for College of Fine Arts majors.
2. As humanities requirements for students in other degree colleges and for transfer students from other universities.
3. Introductory courses serve as state requirements for certification in the College of Education.

117 Introduction to Fine Arts (3)

Prereq: open to freshmen. Introduction to study of esthetic experience and investigation of concepts of response to that experience as seen from analysis of individual works of art. Examples drawn from media of painting and sculpture, architecture, theater, music, dance, and film.

118 Introduction to Fine Arts (3)

Prereq: 117. Analysis of form, media, and content of major arts.

119 Introduction to Fine Arts (3)

Prereq: 117 and 118. Analysis of form, media, and content of major arts stressing interrelationships of architecture, dance, dramatic art, music, film, literature, and painting through recognition of common art factors.

211 History of Art (3)

General survey of western sculpture, painting, and architecture from prehistoric times to Early Christian and Byzantine artistic developments which began in 3rd century A.D.

212 History of Art (3)

Continuation of 211, beginning with Migration Period of Europe (4th century A.D.) and proceeding to 16th century A.D.

213 History of Art (3)

Conclusion of survey sequence, continuing with developments of 17th century Europe to present.

317 Introduction to Fine Arts (3)

Prereq: not open to fr. (fall) Analysis of form, media, and content of major arts stressing interrelationships of architecture, dance, dramatic art, music, literature, and painting through recognition of common art factors.

318 Introduction to Fine Arts (3)

Prereq: 317, not open to fr. (winter) Analysis of form, media, and content of major arts stressing interrelationships of architecture, dance, dramatic art, music, literature, and painting through recognition of common art factors.

319 Introduction to Fine Arts (3)

Prereq: 317 and 318, not open to fr. (spring) Analysis of form, media, and content of major arts stressing interrelationships of architecture, dance, dramatic art, music, literature, and painting through recognition of common art factors.

320X Fine Arts — Florence (1-6)

Prereq: enrollment in OU Italy Program. (spring) Study of fine arts as seen and performed in city of Florence. Churches, museums, and galleries, along with theatrical and musical events provide examples for study.

321 History and Literature of Music (3)

Prereq: Mus 103. *R. Wetzel*. History of music with survey of musical literature to 1450.

322 History and Literature of Music (3)

Prereq: 321 or Mus 321. *R. Wetzel*. History of music with survey of musical literature, 1450-1720.

323 History and Literature of Music (3)

Prereq: 322 or Mus 322. *R. Wetzel*. History of music with survey of musical literature, 1720 to present.

327 Cultural Traditions and the Arts (4)

(fall) Principal styles of western art as mirrored in selected masterpieces of architecture, sculpture, painting, music, and literature. Specific works of art examined in relationship to one another and against background of ideas that animated life of their times. (Greek, Roman, Medieval)

328 Cultural Traditions and the Arts (4)

(winter) Principal styles of western art as mirrored in selected masterpieces of architecture, sculpture, painting, music, and literature. Specific works of art examined in relationship to one another and against background of ideas that animated life of their times. (Renaissance, Baroque)

329 Cultural Traditions and the Arts (4)

(spring) Principal styles of western art as mirrored in selected masterpieces of architecture, sculpture, painting, music, and literature. Specific works of art examined in relationship to one another and against background of ideas that animated life of their times. (19th & 20th centuries)

350 Principles of Architecture (4)

Introduction to styles, theories, and structural principles of architecture.

351 Ancient Architecture (4)

Survey of architectural monuments and their historical settings in Near East, Egypt, Greece, and Rome.

352 Medieval Architecture (4)

Survey of architectural monuments and their historical setting in Early Christian, Byzantine, Romanesque, and Gothic periods.

353 Renaissance and Baroque Architecture (4)

Survey of architects and monuments from 15th through 18th century.

354 19th and 20th Century Architecture (4)

Survey of architects and monuments from historical revival styles through latest stylistic trends.

370 History of Theater I (3)

S. Quinn. Development of theater and drama in western world. 370: prehistoric, Greek and Roman periods; 371: Medieval and Renaissance; 372: from Renaissance to modern. 3 lec.

371 History of Theater II (3)

Prereq: 370. Continuation of 370. See 370 for description.

372 History of Theater III (3)

Prereq: 371. Continuation of 370 and 371. See 370 for description.

400 Senior Seminar: Comparative Arts (3)

Prereq: fine arts srs or perm. Designed to increase insight of art majors into all fine arts. Specifically, to understand similarities and differences which exist among several arts through a consideration of basic esthetic concerns.

470 Greek Theater and Drama (4)

(fall, odd academic years) Drama, theater, and audience in ancient Greece. 4 lec.

471 Roman and Medieval Theater (4)

(winter, odd academic years) Intensive study of drama and theater of Roman and Medieval Europe. 4 lec.

472 Renaissance Theater and Drama (4)

(spring, odd academic years) Development of European theater and drama in Renaissance. 4 lec.

473 Restoration and 18th Century Theater (4)

(spring, odd academic years) Drama, theater, and audience in England from Restoration through 18th century. 4 lec.

474 Baroque European Theater (4)

(fall, even academic years) Detailed study of theater and drama of Europe in Baroque period. 4 lec.

475 19th Century European Theater (4)

(winter, even academic years) Major developments in drama and theater in Europe during 19th century. 4 lec.

476 Contemporary Theater (4)

(spring, even academic years) Trends and developments in 20th century theater. 4 lec.

477 American Theater and Drama (4)

(spring, even academic years) Development of theater and drama in North America from colonial to modern times. 4 lec.

481 Individual Problems (1-6)

Prereq: open to srs only; perm.

COMPUTER SCIENCE

The major requirement for the B.S. or B.A. degree is a minimum of 40 hours not including 100-level courses. Credit for both 201 and 253 or 254 will not be awarded toward 40 hours. Nine of the 40 hours must be at the 400 level or above.

150 Computer Science-Survey (3)

Digital computer machine, its components, operation, control, history, and use. Particular emphasis placed on developing influence of digital computer in business, science, and humanities. Automation examined.

201 Introduction to Computing (5)

Prereq: 3 yrs h.s. math. Algorithms, programs, and computers. Basic programming and program structure. Programming and computing systems. Debugging and verification of programs. Data representation. Organization and characteristics of computers. Survey of computers, languages, systems, and applications. Computer solution of several numerical and nonnumerical problems using 1 or more programming languages.

202 Computers and Programming (5)

Prereq: 201. Computer structure, machine language, instruction execution, addressing techniques, and digital representation of data. Computer systems organization, logic design, microprogramming, and interpreters. Symbolic coding and assembly systems, macro definition and generation, and program segmentation and linkage. Systems and utility programs, programming techniques, and recent developments in computing. Several computer projects to illustrate basic machine structure and programming techniques.

252 Introduction to Digital Computer Programming for Business (5)

Principles and practice of computer solution of problems in business. Typical problems exist in accounting, quantitative methods, and management. COBOL is used.

253 Introduction to Digital Computer Programming for Engineering and the Physical Sciences (5)

Prereq: Math 263A-B-C. Principles and practice of computer solution of problems involving extensive numerical calculations as found in physical sciences, engineering, and numerical mathematics.

254 Introduction to Digital Computer Programming for Behavioral, Educational, and Biological Sciences (5)

Prereq: soph rank. Problem organization for computer solution using scientifically oriented algorithmic languages such as FORTRAN and PL/1. Concepts of and practice in logical problem analysis, artificial language syntax and semantics, problem flow, testing and debugging, input/output, artificial intelligence, and use of auxiliary storage using appropriate problems in student's field of interest.

308 Introduction to Discrete Structures (5)

Prereq: 201. Review of set algebra including mappings and relations. Algebraic structures including semigroups and groups. Elements of theory of directed and undirected graphs. Boolean algebra and propositional logic. Applications of these structures to various areas of computer science.

341A Programming Languages (5)

Prereq: 202 and 308. Formal definition of programming languages including specification of syntax and semantics. Simple statements including precedence, infix, prefix, and postfix notation. Global properties of algorithmic languages including scope of declarations, storage allocation, grouping of statements, binding time of constituents, subroutines, coroutines, and tasks. List processing, string manipulation, data description, and simulation languages.

Run-time representation of program and data structures.

341B Compiler Construction (5)

Prereq: 341A. Review of program language structures, translation, loading, execution, and storage allocation. Compilation of simple expressions and statements. Organization of a compiler including compile-time and run-time symbol tables, lexical scan, syntax scan, object code generation, error diagnostics, object code optimization techniques, and overall design.

341C Systems Programming (5)

Prereq: 341A and 376. Review of batch process systems programs, their components, operating characteristics, user services, and their limitations. Implementation techniques for parallel processing of input/output and interrupt handling. Overall structure of multiprogramming systems on multiprocessor hardware configurations. Details on addressing techniques, core management, system accounting, and other user-related services. Traffic control interprocess communication, design of system modules, and interfaces. System updating, documentation, and operation.

376 Data Structures (5)

Prereq: 202, 308 and 341A. Basic concepts of data. Linear lists, strings, arrays, and orthogonal lists. Representation of trees and graphs. Storage systems and structures and storage allocation and collection. Multilinked structures. Symbol tables and searching techniques. Formal specification of data structures, data structures in programming languages, and generalized data management systems.

381 Information Organization and Retrieval (5)

Prereq: 376. Structure of semiformal languages and models for representation of structured information. Aspects of natural language processing on digital computers. Analysis of information content by statistical, syntactic, and logical methods. Search and matching techniques. Automatic retrieval systems, question-answering systems. Production of secondary outputs. Evaluation of retrieval effectiveness.

401 Mathematical Models of Sequential Machines (5)

Prereq: 308 or Math 214. Definition and representation of finite state automata and sequential machines. Equivalence of states and machines, congruence, reduced machines, and analysis and synthesis of machines. Decision problems of finite automata, partitions with substitution property, generalized and incomplete machines, semigroups and machines, probabilistic automata, and other topics.

402 Theory of Computability (5)

Prereq: 308 or Math 214. Introduction to Turing machines, Wang machines, Shepherdson-Sturgis, and other machines. Godel numbering and unsolvability results, halting problem, Post's correspondence problem, and relative uncomputability. Machines with restricted memory access, limited memory, and limited computing time. Recursive function theory and complexity classification. Models of computation including relationships to algorithms and programming.

405A Modeling and Analysis of Computer Systems (5)

Prereq: 381 or 341C, and 200-level statistics. Computer systems characterized by hardware, software, and operating environment. Models of portions or

functions of batch, time-sharing, or real-time computer systems developed and analyzed. Simulation, queuing, scheduling methods and probability, and statistics used as tools.

405B Modeling and Analysis of Computer Systems (5)

Prereq: 405A. Continuation of 405A.

410 Formal Languages and Syntactic Analysis (5)

Prereq: 376. Definition of formal grammars: arithmetic expressions and precedence grammars, context-free and finite-state grammars. Algorithms for syntactic analysis: recognizers, backtracking, operator precedence techniques. Semantics of grammatical constructs: reductive grammars. Floyd productions, simple syntactical compilation. Relationship between formal languages and automata.

411 Artificial Intelligence and Heuristic Programming (5)

Prereq: 376. Definition of heuristic versus algorithmic methods, rationale of heuristic approach, description of cognitive processes, and approaches to mathematical invention. Objectives of work in artificial intelligence, simulation of cognitive behavior, and self-organizing systems. Heuristic programming techniques including use of list processing languages. Survey of examples from representative application areas. Mind-brain problem and nature of intelligence. Class and individual projects to illustrate basic concepts.

440 Introduction to Data Communications (3)

Prereq: 341C; perm or course in assembly language. Introduction to theory and methodology of computer-to-terminal and computer-to-computer communications using telecommunications facilities. Following topics considered: a) development of data transmission techniques for use on existing telephone network; b) standards and protocols for orderly control of data links between processors; c) software for support of data transmission.

481 Information Organization and Retrieval Projects (5-15)

Prereq: 381, 341B, and perm. Project course in area of information organization and retrieval. Each student must complete project successfully and present results. Lectures by instructor and guest speakers.

490 Special Problems in Computer Science (1-15)

Prereq: perm. Special project in 1 of various subfields of computer science or application area studied, investigated and/or solved by individual student or small group working in close relationship with instructor. Suitable problems might include construction of compiler for special purpose artificial language, perfection of computer code to solve some significant problem, or study of coherent subfield of computer science. May be repeated for credit.

491 Senior Seminar (1)

Prereq: sr rank. Formal presentation by individual students of specified topics from current literature in computer science and defense of interpretations or conclusions.

492 Senior Seminar (1)

Prereq: 491. Continuation of 491. See 491 for description.

493 Senior Seminar (1)

Prereq: 492. Continuation of 491-492. See 491 for description.

DANCE

101 Dance Technique and Theory I (7)

Prereq: perm and audition. Basic dance technique, improvisation, and composition.

102 Dance Technique and Theory II (7)

Prereq: 101 or equiv. Basic dance technique, improvisation, and composition.

103 Dance Technique and Theory III (7)

Prereq: 102 or equiv. Basic dance technique, improvisation, and composition.

111 Music for Dance I (2)

Nature and principles of rhythmic structure in dance and music.

120 Dance Technique (2)

(A) Modern dance, (B) ballet, (C) ethnic dance.

170 Viewing 20th-Century Dance (4)

Art of dance from a broad point of view involving dance viewing, literature, and participation, and dealing with esthetic, physiological, sociological, and cultural aspects of the art in seminar setting. Dance, dancer, choreographer, critic, and audience treated.

201 Intermediate Dance Technique and Theory I (7)

Prereq: 103 or equiv. Intermediate dance technique, improvisation, and composition.

202 Intermediate Dance Technique and Theory II (7)

Prereq: 201 or equiv. Intermediate dance technique, improvisation, and composition.

203 Intermediate Dance Technique and Theory III (7)

Prereq: 202 or equiv. Intermediate dance technique, improvisation, and composition.

212 Dance Notation I (3)

Prereq: perm of instructor. Principles of dance notation.

220 Dance Techniques II (2)

Prereq: 120 or equiv. (A) Modern dance, (B) ballet, (C) ethnic dance.

240 Practicum in Teaching Dance I (1)

Prereq: perm of instructor. Observation and assistance in student teaching. May be repeated.

250 Ethnic Dance of Nonwestern Cultures (2)

Dances from selected nonwestern cultures with emphasis on style and related folklore.

255 Ethnic Dance of Western Cultures (2)

Dances from selected western cultures with emphasis on style and related folklore.

301 Advanced Dance Technique and Theory I (7)

Prereq: 203 or equiv. Advanced dance technique and choreography.

302 Advanced Dance Technique and Theory II (7)

Prereq: 301 or equiv. Advanced dance technique and choreography.

303 Advanced Dance Technique and Theory III (7)

Prereq: 302 or equiv. Advanced dance technique and choreography.

310 Accompaniment for Dance (2)

111 or perm. Basic problems in accompanying dance and analysis of dance forms related to accompaniment.

312 Music for Dance II (2)

Prereq: 111 or equiv. Also for music composition majors who wish to write for dance theater. History of music for dance. Choreographer-composer relationship.

320 Dance Technique III (2)

Prereq: 220 or equiv. (A) Modern dance, (B) ballet, (C) ethnic dance.

351 Dance Cultures of the World I (4)

Introduction to dance cultures of the world (excluding western art dance). Function of dance in society and its relationship to other arts.

352 Dance Cultures of the World II (4)

Introduction to dance cultures of the world (excluding western art dance). Function of dance in society and its relationship to other arts.

353 Dance Cultures of the World III (4)

Introduction to dance cultures of the world (excluding western art dance). Function of dance in society and its relationship to other arts.

370 Viewing 20th Century Dance (4)

Prereq: not open to students who had 170; jr rank and above. Art of dance from broad point of view involving dance viewing, literature, and participation, and dealing with esthetic, physiological, sociological, and cultural aspects of the art in seminar setting. Dance, dancer, choreographer, critic, and audience treated.

380 Practicum in Dance Production (1)

Prereq: perm of instructor. Supervised laboratory practice in production and/or performance. May be repeated.

385 Dance Repertory (1-3)

Prereq: majors only, audition and perm; may be repeated for total of 12 hrs. Rehearsal and performance of choreographic works taught by choreographer or reconstructors with aid of video-tape, film, and/or dance scores.

401 Independent Choreography and Experimental Production I (7)

Prereq: 303 or equiv. Advanced dance technique and experimental dance production.

402 Independent Choreography and Experimental Production II (7)

Prereq: 401 or equiv. Advanced dance technique and experimental dance production.

403 Independent Choreography and Experimental Production III (7)

Prereq: 402 or equiv. Advanced dance technique and experimental dance production.

411 Dance Notation II (3)

Prereq: 212 or equiv. Continuation of 212 with more advanced reading and writing in notation.

413 Dance Notation III (3)

Prereq: 411 or equiv. Continuation of 411 with more advanced reading and writing in notation.

420 Dance Technique IV (2)

Prereq: 320 or equiv. (A) Modern dance, (B) ballet, (C) ethnic dance.

440 Practicum in Teaching Dance II (2)

Prereq: 240 and perm. Student teaching under supervision.

441 Teaching Dance I (3)

Prereq: perm. of instr. Principles of teaching dance and their practical application. Dance for children.

442 Teaching Dance II (2)

Prereq: at least 1 qtr of 240; co-req: 440. Principles of teaching dance and their practical application. Dance for adolescents.

443 Teaching Dance III (2)

Prereq: at least 1 qtr of 240; co-req: 440. Principles of teaching dance and their practical application. Dance for adults.

471 History of Dance I (4)

Development of western dance in the 19th and 20th centuries with emphasis on ballet and modern dance.

472 History of Dance II (4)

Survey of dance forms and their functions; dance motivation from sympathetic magic in tribal societies; in mythic ritual and in dance-drama.

473 History of Dance III (4)

Survey of dance from early Christian church through Baroque period.

480 Production Problems for Dance Theater (2)

Prereq: perm of instructor. Production problems involved with dance events including design, lighting, costume, and administrative procedures.

490 Independent Study (1-10)

Prereq: perm of instructor.

DESIGN TECHNOLOGY

The following courses for the AAS program in design technology are available only on the Lancaster Campus.

100 Materials and Design I (4)

Study of basic metallurgy. Includes metallic structure, equilibrium diagrams, alloys, heat treatment, effects of hot and cold working, comparative properties, metal failure, design concepts, testing methods. 3 lec, 2 lab.

110 Materials and Design II (3)

Prereq: 100 or perm. Nonmetals used in design. Chemical structure, effects of processing, and comparative properties of ceramic materials, plastics, rubber, adhesives, coatings, lubricants, wood, etc. Use of standards and handbooks. 3 lec.

150 Detail and Assembly Drawing (3)

Prereq: EG 102, IndT 216, or perm. Preparation of detail and assembly drawings from layouts and design sketches. Determination of tolerances, consideration of manufacturing processes on dimensioning, use of reference materials. 6 lab.

200 Engineering Mechanics I (4)

Prereq: Math 119 or perm. Basic statics and dynamics. Coverage includes vectors, Newton's laws, trusses, frames and machines, friction, moments of inertia, particle kinematics and kinetics, work-energy, impulse-momentum. 4 lec.

210 Engineering Mechanics II (4)

Prereq: 200 or perm. Introduction to strength of materials. Axial, torsional, and flexural loadings; plane stresses; beams; columns; deflections; statically indeterminate systems; testing methods. 3 lec, 2 lab.

220 Machine Design (3)

Prereq: 110, 210, or perm. Design of machine elements. Shafts, brakes, clutches, belts, couplings, bearings, springs, gears, fasteners, splines, and keys. Stresses in machine parts, materials application. 3 lec.

230 Tool Design (4)

Prereq: 110, 150; IndT 115, 216; or perm. Basic jig and fixture design. Relation to manufacturing processes, material requirements, introduction to die design, gauging, and cutting tools. Design projects. Use of standards. 1 lec, 6 lab.

240 Mechanisms (4)

Prereq: 200, EG 121, or perm. Design and analysis of simple mechanisms. Kinematics and kinetics of rigid bodies, graphical analysis of force, velocity and acceleration problems, linkages, instantaneous centers, gear trains, cams, rolling contact. 1 lec, 6 lab.

250 Structural Design (4)

Prereq: 110, 150, 210, or perm. Design of structural components in buildings. Foundations, connections, materials selection, use of industry standards. 1 lec, 6 lab.

260 Mechanical Systems Design (4)

Prereq: 110, 210; EG 121, Phy 201; or perm. Design and layout of piping and duct systems. Introductory fluid mechanics, schematic drawings, specification of fans and pumps, materials application, structural supports, pressure vessels, use of standards. 1 lec, 6 lab.

299 Special Problems (1-3, max 6)

Prereq: perm. Individual projects or internship experiences under direction of a faculty member in design technology.

ECONOMIC EDUCATION

346 Economics in the Curriculum (3-5)

For teacher-education students, designed to provide study of (1) fundamental economic concepts, (2) methods of inquiry employed by economists, and (3) relationship of economics content to classroom instruction and instructional materials.

400 Public Attitudes Toward Business (2)

Prereq: Econ 101 and 102; jr rank. Introduces students to literature and prevailing public opinion toward private enterprise system. Shows how business may effectively utilize economic education to improve attitudes of consumers toward business.

447 Economic Analysis and Its Application to the Curriculum (2-5)

Prereq: 346 or HE majors. For elementary and secondary teachers. Designed to emphasize methods of inquiry employed by economists and their application to theories of instruction.

448 Economic Policy and Its Application to the Curriculum (2-5)

For elementary and secondary teachers, designed to

provide application of economic analysis to economic policy and courses of study.

449 Economic Education Programs (3-5)

Economic education in schools. Administrative and organizational structures, current curriculum development projects, essential economic understandings that should be taught and their place in curriculum, ways to improve economic education, and economic education organizations.

491 Seminar (3-5)

Prereq: perm. Selected topics of current interest in economic education.

492 Research (3-5)

Prereq: perm. Methodology, analysis of data, and preparation of research findings.

493 Readings (1-15)

Prereq: perm. Readings in selected areas of economic education.

497 Independent Research (1-15)

Prereq: perm. Research in selected fields of economic education under direction of faculty member.

498 Internship (1-15)

Prereq: perm.

ECONOMICS

Two opportunities are open to students interested in majoring in economics: a liberal arts program in the College of Arts and Sciences and a business economics program in the College of Business Administration.

Majors in economics in the College of Arts and Sciences must complete the AB degree requirements of the college and, in addition, take at least 36 hours of economics including eight hours of Principles of Economics, Econ 303, 304, 381, and 385.

Majors in business economics in the College of Business Administration must complete the BBA degree requirements in the college and take at least 20 additional hours of economics including Econ 304 and 385. Econ 380 and 381 may *not* be counted toward meeting this 20-hour course requirement.

101 Principles (4)

Basic theory of national income analysis. Economic problems and economic institutions of society.

102 Principles (4)

Basic theory and economic analysis of prices, markets, production, wages, interest, rent, and profits.

H201 Economics for Honors Tutorial College Students (4)

Prereq: enrollment in Honors Tutorial College. Economic theory, history, and statistics. Development of analytical framework for understanding contemporary economic issues and trends. Discussion, problem-solving, reports emphasizing student participation.

H202 Economics for Honors Tutorial College Students (4)

Prereq: H201. Continuation of H201. See H201 for description.

213 Current Economic Problems (4)

Prereq: 101 or 301 and 102 or 302. Application of economic theory to current economic problems with

emphasis upon public policy implications. Depressed areas, technological unemployment, economic growth, energy, inflation, and agricultural instability considered.

214 The Economics of War and Peace (4)

Prereq: 101 or 301 and 102 or 302. Application of techniques of economic analysis to examination of various aspects of national military involvement. Includes consideration of both microeconomic and macroeconomic implications of war and peace.

231 Government Regulation of Business (4)

Prereq: 101 or 301 and 102 or 302. Social consequences of monopoly and competition. Various policy prescriptions dealing with economic concentration and market structure considered, as well as impact of these policies on United States business. Government regulation of business reviewed and evaluated.

260 Money and Banking (4)

Prereq: 101 or 301. Nature of money, debt, and credit; relations between money, finance, and economic activity.

301 Introduction to Economic Analysis (4)

Prereq: not open to fr or to those who have had 101 and 102. Description same as for 101 but content treated at more advanced level.

302 Introduction to Economic Analysis (4)

See 102 for description, but content treated at more advanced level.

303 Microeconomics (4)

Prereq: 101 or 301, or 102 or 302. Price system as an allocative mechanism. Price and production policies of individual firms and consumers under alternative market conditions and analysis of these policies on social efficiency of resource allocation. Students expected to have an understanding of elementary algebra and geometry.

304 Macroeconomics (4)

Prereq: 101 or 301, jr; soph if major. Factors determining level of nation's economic activity and responsible for growth and stability in nation's economy. Part of course devoted to measures of national income while remainder consists of analysis of interrelationships among production, price levels, relative prices, employment, and capital formation. Students expected to have an understanding of elementary algebra and geometry.

305 Managerial Economics (4)

Prereq: 102 and QM 201 or equiv. Analysis of decision-making in enterprise; market environment; measurement of influence of policy and nonpolicy variables on sales and costs; sales, cost, and profit forecasting; empirical studies of market structure and pricing; may include various applications of linear programming.

306 Economic Environment and Business Forecasting (4)

Prereq: 101 or 301 and QM 201. National income and monetary and business cycle analysis; forecasting; time series, industry demand and firm sales forecasts.

307 History of Economic Thought (4)

Prereq: 101 or 301 and 102 or 302. Evolution of major economic doctrines: mercantilists and cameralists, physiocrats, Adam Smith and classical school, historical school, Austrian school, Alfred Marshall and neoclassicists.

308 Modern Economic Thought (4)

Prereq: 101 or 301 and 102 or 302. Contributions to economics of most significant writers since Alfred Marshall.

309 Institutional Economics (4)

Prereq: 101 or 301 and 102 or 302. Economic theory and policy contributions of Veblen, Commons, Ayres, and other modern dissenters from traditional economic thought. Principles of technological progress and institutional adjustment; influence on contemporary theory and policy.

310 Urban Economics (4 or 5)

Prereq: 101 or 301 and 102 or 302. Application of economic analysis to urban problems; urban economic growth and structure (location patterns, land use and environment, urban transportation, and housing); human resources in urban economies and public sector in a metropolitan context.

311 Inequality of Personal Wealth and Income (4)

Prereq: any course in statistics. Quantitative and qualitative differences in wealth and income between low, middle, and high income groups in a society using historical, statistical, and mathematical techniques. Open to all students.

312 Economics of Poverty (4)

Prereq: 101 or 301 and 102 or 302. Incidence, causes, and consequences of poverty in the United States. Economic theory, history, statistics applied to analysis of poverty-reduction measures.

313 Economics of the Environment (4)

Prereq: 101 or 301 and 102 or 302. Economic analysis of such environmental matters as air, water, and noise pollution, population growth, and land use. Emphasis placed on use of economic theory and empirical research in evaluating environmental policies.

315 Economics of Health Care (4)

Prereq: 101 or 301 and 102 or 302. Allocating resources to health care, economics of hospital care, health care in the U.S. and abroad, supply and demand for nurses, solution of health-care problems: paramedics, prepaid plans, malpractice problems.

316 Economics and the Law (4)

Prereq: 101 or 301 and 102 or 302. Economic consideration of property, contracts, crimes and torts, monopoly and anti-trust law, taxation, and constitutional issues.

318 Economics of Sports (4)

Prereq: 101 or 301 and 102 or 302. Growth of sports in the U.S. Organization and structure of sports market. Revenues, costs, and profitability in sports activities. Economic discrimination in sports

320 Labor Economics (4)

Prereq: 101 or 301 and 102 or 302. Economic forces generating modern labor problems. History of labor movement; labor in politics; labor-management relations; wages and full employment.

321 Labor Legislation (4)

Prereq: 101 or 301 and 102 or 302. Law bearing upon labor problems. Labor-relations legislation, old-age and unemployment insurance, workmen's compensation, and wages-and-hours legislation.

322 Economics of Human Resources (4)

Prereq: 101 or 301 and 102 or 302. Current developments in theory, empirical research, and policy with respect to investment in human resources, eco-

conomic value of education, manpower programs, and growth.

332 Industrial Organization (4)

Prereq: 303 or 305. Market structure, market conduct and market performance in American industry. Emphasis on developing theoretical framework for evaluating efficiency of industry. Merger activity examined historically and its causes determined. Characteristics of principal manufacturing and processing enterprises evaluated. Contribution of theory of industrial organization to macroeconomic theory and microeconomic theory discussed.

333 Government and Agriculture (4 or 5)

Prereq: 101 or 301 and 102 or 302. Problems of American agriculture as an industry; economics of government policies and programs; consideration of forces and objectives in policy formation.

334 Public Utilities (4)

Prereq: 303 or 305. Economic basis of public utility concept and its relation to business organization. Nature, scope, development, legal organization, and regulation of public utilities.

340 International Economics (4)

Prereq: 101 or 301 and 102 or 302. Economic relations of nations of the world. Some of topics considered are: economic basis for international trade and investment; mechanics of international exchange; tariffs, quotas, exchange control, cartels, and state trading as devices of economic nationalism; and international economic cooperation with special reference to organizations affiliated with United Nations.

350 Economic Development (4)

Prereq: 101 or 301 and 102 or 302. Nature of, obstacles to, and future possibilities for economic growth of nations. Special emphasis given to problems of underdeveloped countries. Studies of selected countries utilized.

351 Agricultural Development (4)

Prereq: 101 or 301 and 102 or 302. Patterns of agricultural development in United States and selected foreign areas; technological and demographic changes in agriculture; socio-economic problems; marketing arrangements; case studies of specific agricultural development projects.

352 Economic History of the United States (4 or 5)

Prereq: 101 or 301 and 102 or 302. Economic factors in development of United States including historical growth of economic institutions such as banking, manufacturing, labor unions, and agriculture, from colonial times to present.

353 European Economic History (4 or 5)

Prereq: 101 or 301 and 102 or 302. Economic growth of developed countries. Focus on industrial revolutions in Great Britain, France, Germany, Soviet Union, and Japan. Historical experience of these countries related to various theories of economic change.

354 Latin American Economic History (4)

Prereq: 101 or 301 and 102 or 302. Origins of economic institutions and policies which affect current problems of economic development, *e.g.*, latifundia system, export of primary commodities, private foreign investment, etc. Interrelationship of economic and political factors. Review of Aztec, Inca, and colonial economies but greater emphasis on developments in 19th and 20th centuries. Introduction to current economic conditions and government

policies, foreign exchange shortage, import substitution, urbanization, etc.

356 Regional Development (4)

Prereq: 101 or 301 and 102 or 302. Analysis of industrial location and urban growth within regions in connection with community, state, or national planning. Consideration of national policies of aiding special regions, such as Appalachia or the metropolitan central city. North-South issue in U.S. and in other nations.

370 Comparative Economic Systems (4)

Prereq: 101 or 301 and 102 or 302. Theoretical and institutional characteristics of capitalism and socialism with specific emphasis on prevailing economic systems in United States, England, and Russia.

371 Economics of Planning (4)

Prereq: 101 or 301 and 102 or 302. Economics of planning and its major applications to private and public planning; national, regional, and local planning; centralized and decentralized planning. Procedures and techniques of planning: organization, economic analysis, social accounting, input-output analysis, linear programming, location theory, industrial complex analysis; gravity, potential and spatial models, computers, and planning; research and development.

372 Economics of the Soviet Union (4 or 5)

Prereq: 101 or 301 and 102 or 302. Operation of economy of Soviet Union. Allocation of resources, planning, saving and investment, agriculture, public finance, price system, and international trade.

380 Mathematics for Economists (4 or 5)

Prereq: 101 or 301 and 102 or 302 and perm. Mathematical analysis in economics. Calculus and matrix algebra techniques used prominently in economics literature, together with their application to selected problems in economics.

381 Statistics for Economists (4)

Prereq: 101 or 301 and 102 or 302. (fall) Statistical methods used in economics with special emphasis on time series and regression analyses.

385 An Introduction to Economic Methodology and Research (4)

Prereq: 303 or 305 and 304 or 306 and 381 or equiv. Methods used by economists in investigation of economic problems. First part involves research methods, including contemporary statistical estimation techniques. Second part applies these techniques to investigation of economic phenomena. Types of application include construction and testing of a simple econometric model, estimation of production functions, evaluating theories of factor pricing, estimating social costs of pollution, etc.

406 Stabilization Policy (4)

Prereq: 303 or 305 and 304 or 306. Emphasis on monetary economics. Money demand and supply theory and policies for minimizing cyclical fluctuations in economic activity.

430 Public Finance (4)

Prereq: 303 or 305 or perm. Role played by government as user of economic resources and redistributor of incomes. Some questions explored: need for government's entry into economy, optimal size of government, selection of tax and expenditures schemes, and effects of government economic activity on private sector.

431 Economics of Transportation (4)

Prereq: 303 or 305. Economics of transport pricing; regulations of transport and national transport policy.

441 International Economic Policy (4)

Prereq: 340. Current economic developments of foreign and United States economic policy. National and international aspects of policy will include tariffs, controlled trade, international agreements, commercial treaties, foreign exchange control, clearing agreements, international liquidity controversy, and contemporary balance of payments problems. Roles of institutions such as world bank and International Monetary Fund discussed with emphasis on interaction of domestic and international goals and policies.

455 African Economic Development (4)

Prereq: 350 or perm. Economic characteristics of African societies as traditional economies and in process of modernization.

461 Monetary History of the United States (4)

Prereq: 260 or 304. Correlation of developments in American history with development of monetary institutions, policy, and theory. Evolution of commercial and central banking and relationship of these to economic activity in history of United States.

473 Economics of Southeast Asia (4 or 5)

Prereq: 350 or perm. Economic characteristics, development problems, strategies, and prospects of countries of Southeast Asia.

474 Economics of Latin America (4)

Prereq: 350 or 354 or perm. Characteristics of economies of Latin American countries. Particular emphasis on prospects for economic development of the region and nature and origin of institutional obstacles to economic change. Economic heritage of colonial period and subsequent evolution of economic institutions, resources of the area and their utilization, and trends in economic activity and policy in post-WW II period.

475 Chinese Economy (4 or 5)

Prereq: 350 or perm. Introductory familiarization with Chinese economy. China's early industrialization, 1880-1931; socialist transformation of each economic sector, 1949-1966; overall performance of Chinese economy and each economic sector; and Maoist revision of orthodox Marxist-Leninist economic doctrines.

482 Introduction to Econometrics (4 or 5)

Prereq: 303 or 305; 304 or 306; and 381 or equiv. Applications of statistics to economics. Design and estimation of economic models. Estimation of simultaneous equation systems.

491 Seminar (3, 4 or 5)

Prereq: perm. Selected topics of current interest in economics area.

493 Readings (1-15)

Prereq: perm. Readings in selected fields of economics. Topics selected by student in consultation with faculty member.

493X Readings (1-15)

Prereq: perm. Study abroad.

495 Research (3, 4 or 5)

Prereq: perm. Methodology, analysis of data and preparation of research findings.

497 Independent Research (1-15)

Prereq: perm. Research in selected fields of economics under direction of faculty member.

EDUCATION

APPLIED BEHAVIORAL SCIENCE AND EDUCATIONAL LEADERSHIP

Educational Administration
Guidance, Counseling and Student
Personnel Services

CURRICULUM AND INSTRUCTION

Curriculum and Instruction
Educational Media
Elementary Education
International and Comparative Education
Library Science
Secondary Education
Special Education

PROFESSIONAL LABORATORY EXPERIENCES

APPLIED BEHAVIORAL SCIENCES AND EDUCATIONAL LEADERSHIP

Educational Administration

452 Problems in Administration of Education (1-4)

Prereq: perm. A variable-topic course for independent study, institutes, and workshops.

Guidance, Counseling and Student Personnel Services

201 Career and Life Planning Seminar (3)

Designed to provide knowledge and skill in career and life planning for freshmen and sophomores, especially for those who are undecided about college major and career. Emphasis placed on identifying strengths, clarifying values, exploring career options and in developing decision-making skills.

**400 Special Topics in Guidance,
Counseling and Student Personnel (1-5)**

Prereq: sr rank and/or perm. Independent studies and specialized projects as well as seminars on special topics for undergraduate students in human relations and/or group dynamics as they relate to guidance, counseling, and/or student personnel services.

410 Human Relations (3)

Prereq: sr rank or perm. Study and practice of developing healthy and mutually satisfying interpersonal relationships. Lecture and discussion groups focus on dynamics of human relationships, factors fostering effective interaction, and significance of self concepts in human communication. Topical headings include value clarification, games people play, cueing into affect and feelings, self disclosure and trust, conflict resolution, helper-helpee rela-

tionships, constructive use of anger, sexuality, prejudice, alcoholism, death and dying, etc.

420 Guidance Practices in Elementary Schools (4)

Need, scope, and nature of elementary guidance are surveyed. Major emphasis on teacher's guidance responsibilities. Guidance approaches and procedures examined for their usefulness in working with children and parents. Techniques of appraising and changing attitudes and behavior studied. Roles of elementary school counselor and other pupil personnel specialists reviewed for their contribution to growth and development of children. Opportunity for students to achieve greater self-understanding through involvement in self-appraisal.

430 Guidance in American Secondary Schools (4)

Need, scope, and nature of guidance in secondary school. Guidance approaches and procedures examined for their usefulness by teachers and counselors in working with children and parents. Techniques of appraising and changing attitudes and behavior studied. Roles of secondary school counselor and other pupil personnel specialists reviewed for their contribution to growth and development of children. Opportunity for students to achieve greater self-understanding through involvement in self-appraisal.

440 Foundations in Group Dynamics (4)

General principles and basic techniques of group dynamics. Interaction in human relations situations that occur in agency settings, business, classrooms, community, resident living, and various types of professionally led training, counseling, and growth groups. Through both cognitive and affective learning opportunities, students learn to understand and use group dynamics principles in areas of personal and professional interaction. Students attend weekly cognitive seminars as well as participate in on-going group laboratory.

CURRICULUM AND INSTRUCTION

Curriculum and Instruction

275 Learning Processes in the Classroom (5)

Prereq: Psy 101 (not available to students who have taken Psy 275). Focuses on major aspects of learning theories, their implication, and applications to classroom situations as well as aspects of measurement and evaluation.

461 Introduction to Individualization of Education (4)

Prereq: perm. (spring) *M. Johnson*. Broad objective of course is for each participant to develop knowledge of major concepts for individualization of education and to demonstrate this knowledge through creation of instructional package ready for implementation in classroom setting. Course focus is to facilitate study of major components necessary for teacher to implement individualized instruction in classroom.

492 Workshop in Curriculum and Instruction (1-15)

Prereq: perm. Designed to provide practicing teachers and other instructional personnel with inservice education directed toward their identified needs. Facilitates offering of short courses, work-

shops, and summer institutes. Areas of concentration currently available: A. Language Arts, B. Social Studies, C. Science, D. Mathematics, E. Reading, F. Kindergarten, G. Individualizing Instruction, H. Team Teaching, I. Interaction Analysis, J. Developing Behavioral Objectives, K. Curriculum Development, L. Interdisciplinary Topics, M. Special Topics, N. Special Education Topics, O. Supervision of Instruction.

Educational Media

480 Introduction to Educational Media (4)

Prereq: jr rank. Application of principles of instructional materials and media to teacher-student communication. Basic experiences provided in production of instructional materials and equipment operation.

481 Production of Instructional Materials (3)

Prereq: jr rank and 480, or perm of instructor. *R. Miller, J. McCutcheon, S. Strother*. Develops basic pattern for preparation of wide variety of locally produced, inexpensive instructional materials. Includes laboratory experience in manipulation of pictures, lettering, coloring, preservation, and reproduction techniques used in creating instructional pictures, slides, transparencies, and other projected and nonprojected materials.

482 Organization and Administration of Educational Media Programs (5)

Prereq: jr rank. *S. Strother*. Organization and administration practices for educational media programs in individual schools and districts considered. Emphasis on budget procedures, evaluation techniques, staffing, and acquisitions.

489 Practicum in Educational Media (3)

Prereq: jr rank. *S. Roberts, S. Strother*. Course participants will examine media centers with a view to practical experience pertaining to center operations. Class time devoted to comparative analysis of center programs.

Elementary Education

200 Studies of Children (4)

Bases for a developmental theory of education; growth sequences through adolescence; principles of development, behavior, and learning; techniques of child-study; implications for educational practice. No credit awarded if HECF 160 or Psy 173 has been taken.

306 Kindergarten — Theory and Methods (6)

Prereq: jr standing in teacher education. *Staff*. Combines evolving theory of education in kindergarten with selection and uses of learning materials through laboratory practice and participation experiences in local schools.

310 The Teaching of Reading and Language Arts in the Elementary School (6)

Prereq: jr standing in teacher education. *S. Rebotini, R. Pinney*. Preservice preparation for developmental teaching of reading, text and supplementary readings, lectures and discussions, films and other resources, observations and projects for practical competence.

321 Children's Literature (4)

Prereq: jr standing in teacher education. *R. Pinney*. Criteria for selection of children's literature, chil-

dren's reading interests, preparation of materials for use in literature program, use of choral reading and verse choir, and reading of outstanding literature for children.

330 Teaching of Mathematics in the Elementary School (4)

Prereq: 9 hrs of math, including Math 120 and jr standing in teacher education. *C. Smith, C. D'Augustine*. Methods of teaching numbers, numeration, operations, relations, problem solving, measurement, and geometry.

340 Teaching of Science in the Elementary School (4)

Prereq: jr standing in teacher education; 12 hrs of science including biology and physical science. *L. Mills, P. Ploutz*. Materials and methods of teaching science in elementary schools. Textbooks, science equipment, and related instructional materials used in lab lessons.

350 Teaching of Social Studies in the Elementary School (4)

Prereq: 12 hrs of social science including Geog 121, jr standing in teacher education. *A. Leep*. Materials and methods in teaching content subjects in elementary schools with special emphasis upon practical experience in social studies unit teaching and skills.

400 Advanced Studies of Children (3)

Prereq: 20 hrs of education or psychology. *J. Brunk*. Intensive study of biological and environmental influences on human development from conception to maturity.

407 Evaluation in the Elementary School (3)

Prereq: 16 hrs of education. *Staff*. Standardized tests in elementary school with emphasis on selection, interpretation, and use. Teacher-made tests, check lists, rating scales, and anecdotal records. Elementary statistical treatment of test scores and grading.

411 Diagnosis and Treatment of Reading Disabilities (4)

Prereq: 310, perm. *S. Rebottini, B. van der Veur, R. Pinney*. Correlates of variability in reading proficiency. Incidence of retardation and disability. Proposed causes of failure and concept of multiple causation. Specialized materials and instructional efforts. Systematic observation of cases of reading disability and preparation of case report.

412 Reading Laboratory Practicum (4, max 12)

Prereq: sr rank. *S. Rebottini, B. van der Veur*. Application of developmental approach to problem cases in reading instruction, participation in diagnostic examination, parent and teacher conferences, individual procedures in tutoring, staffing of cases, and preparation of reports. (Weekly group discussion period, lab sessions arranged.)

430 Modern Elementary Mathematics Curriculum (3)

Prereq: 330. *C. Smith, C. D'Augustine*. Modern elementary mathematics curriculum with emphasis on why changes are occurring. Nature of changes as reflected from experimental programs; effect of changes on methods of teaching. Implementation of these changes in classroom.

460 The Child and the Curriculum (4)

Prereq: student teaching. (Academic yr plus 1st term of summer session). *J. Masla, M. Ploghoft*. Develops purpose for elementary education through

study and research of curriculum and learning problems. Emphasis on service role of elementary school curriculum to child and society and role of teacher in laying educational foundations in development of life-worth for each child.

490 Study in Elementary Education (1-5, max 15)

Prereq: perm of dept chairman. Independent and/or group study of some special interest and concern (problems, area, questions) under guidance of staff; assigned and suggested readings and other resources and experiences; frequent conferences; preparation of final report.

International and Comparative Education

420 Comparative Cultures and Education (4)

Prereq: perm. (fall, spring) *S. Samaan*. Emphasis on distinctive cultural, economic, and political forces which shape patterns, problems, and roles of education in some selected developed and developing nations. These include United States, some European countries, and at least one African and/or Asiatic nation where a former or present western culture has an impact. Assessment of this impact especially on educational developments.

425A Education and Development in Africa (4)

Prereq: perm. (winter) *S. Samaan*. Interdisciplinary course focusing on tradition and change in African societies, problems of political independence, economic development, cultural values in transition, tribalism and nationalism, and role of Africa in world peace and international cooperation. Tradition and change in African education, landmarks in African educational developments, and role of education in economic and technological development. Issues and problems in African education.

425B Education and Development in Asia (4)

Prereq: perm. Same emphasis as 425A on tradition and change in society, culture and education, and role of education in national development and international understanding; discussion of pertinent educational issues and problems.

425C Education and Development in Latin America (4)

Prereq: perm. Same emphasis as 425A-425B, on tradition and change in society, culture and education, and role of education in national development and international understanding; discussion of pertinent educational issues and problems.

432 Perspectives in International Education (4)

Prereq: perm. *S. Samaan*. Interdisciplinary course dealing with concept and issues of international understanding, its psychological, economic, and political preconditions; perceptions, values, and attitudes that constitute or impede understanding among individuals, groups, races, and nations; human and cultural dimensions in technical assistance programs and in international relations; role of education in attitude change and formation relative to international understanding and development.

450 Teaching Strategies for Cultural and International Understanding (4)

Prereq: perm, sr rank. *S. Samaan*. Psychological and sociological foundations of cultural values and ways of life investigated. Strategies for developing cross-cultural understanding and cooperation studied and developed. Emphasis on innovative ap-

proaches to learning for elementary and secondary school pupils.

Library Science

201 The Use of Library Resources I (3)

(fall, winter, spring) *S. Roberts*. Effective use of modern library reference resources. Required for minor in library science. Stresses general works. May be taken without 202 by those who do not choose to minor in educational media.

202 The Use of Library Resources II (3)

Prereq: 201. (winter) *S. Roberts*. Training in effective use of modern library reference resources. Required for minor in educational media. Stresses specific subject reference materials.

301 Library Services for Children (4)

(spring) *S. Roberts*. Book and media selection and group work with children, including story programs, book talks, library lessons, using media and practical experience with children.

302 Books and Media for High School Students (4)

(winter) *S. Roberts*. Books and other media considered for whole learning approach. Required for minor in educational media.

402 Advanced Library Studies (2-5)

Prereq: perm. *S. Roberts*. Elective designed for student who wants to explore some facet of library work in greater depth.

403 Classification and Cataloging (5)

(fall) *S. Roberts*. Classifying and cataloging books and nonbook materials with practice in preparation of card catalog for high school media center. Required for minor in educational media.

Secondary Education

250 Analysis of Teaching (4)

Prereq: admission to teacher education or perm of education personnel dean. *R. Skinner, M. Johnson*. Immediate focus upon teaching act with training in systematic observation and analysis. Peer teaching, and tools for self-analysis. 3 lec, 2 lab.

351 Instructional Process and Curriculum (5)

Prereq: 250 and admission to jr standing in teacher education, or perm of education personnel dean. *M. Johnson, J. Thompson*. Focus on curriculum planning, current teaching techniques and materials. Emphasis on lab experiences and use of media. 4 lec, 2 lab.

415 Cocurricular Programs for Secondary Schools (4)

Prereq: admission to jr standing in teacher education. Comprehensive treatment of school-recognized activities in cocurricular programs, such as school newspaper, honor society, advising clubs and student government, national contests for talented students, etc.

420 Teaching Reading in the Junior and Senior High School (5)

Prereq: 351. Materials, methods, and developmental patterns of adolescents in reading. Remedial programs and adaptation of materials to adolescent.

432 Evaluating Pupil Progress in Secondary Schools (3)

Test construction, teacher-made tests, standardized tests, and instructional objectives of testing. Test evaluation, score interpretation, and relation of tests to student development.

470 Teaching of Bookkeeping and Basic Business (3)

Prereq: 351 and Acct 303. (fall) Materials, methods, and techniques in teaching bookkeeping and basic business subjects.

471 Teaching Mathematics in Middle and Junior High School (3)

Prereq: 351. (spring) Organization and methods of teaching subject matter of mathematics curriculum in grades 7 and 8. Number system studied.

472 Teaching of Earth Science (3)

Prereq: 351. (winter) *R. Skinner*. Instructional materials and techniques related to teaching earth science.

478 Teaching of Physical Science (3)

Prereq: 351 and perm. (fall) *R. Mitias*. Instructional materials, classroom methods, sources of lab equipment and supplies, and teaching techniques in physical sciences.

479 Teaching of the Social Studies in Junior and Senior High Schools (3)

Prereq: 351 and perm. *A. Clubok*. Nature, development, purpose, and value of social studies, with emphasis on methods and techniques of instruction. Curriculum reorganization, unit planning, materials of instruction, and evaluation.

480 School and Society (3)

Prereq: student teaching or perm. *E. Stevens, G. Stephenson*. Current trends and issues in American secondary education, utilizing materials drawn from social and cultural foundations of education.

490 Studies in Secondary Education (1-5, max 15)

Prereq: perm of dept chairman. Honors students or students seeking honors in secondary education may register for this course.

Special Education

271 Introduction to Education of Exceptional Children and Youth (3)

Prereq: admission to teacher education. *S. Schaaf*. Educational needs of exceptional children including gifted, slow learner, trainable and educable mentally retarded, nonsensory neurologically impaired, speech handicapped, aurally and visually impaired, and socially and emotionally maladjusted.

272 Introduction to Education of Mentally Retarded Children and Youth (3)

Prereq: 271 and admission to teacher education. *Staff*. Etiology, diagnosis, classification, learning potential, and general characteristics of retarded child with emphasis on psychosociological impact of retardation upon individual, family, and community.

371 Teaching the Preschool Handicapped (3)

Prereq: admission to jr standing in teacher education. Purpose, organization, and methods utilized for education of preschool handicapped including program of home training.

372 Language Development for the Handicapped (3)

Prereq: admission to teacher education. *L. Jageman*. Examination of language acquisition of handicapped children with primary emphasis on mental retardation. Methods and materials in evaluation and training of receptive and expressive language presented.

373 Curriculum Development for Handicapped Children (3)

Prereq: 272 and admission to teacher education. *L. Jageman*. Organization and development of curriculum including objectives, concepts, methods, and materials with emphasis on preparation of resource units.

374 Language Arts for the Mentally Retarded (4)

Prereq: admission to jr standing in teacher education and EdEl 310. *S. Schaaf*. Organization of methods and materials for teaching all phases of language skills to the retarded.

375 Social Studies and Science for the Mentally Retarded (4)

Prereq: admission to jr standing in teacher education. Organization and methods of teaching science and social studies to mentally retarded. In addition to selection planning and teaching of appropriate units in social studies and science, emphasis is placed on implementation of current theory and research to strengthen personal-social-vocational adjustment of mentally retarded.

376 Mathematics for the Mentally Retarded (2)

Prereq: admission to jr standing in teacher education. Organization methodology and materials for teaching basic math concepts and skills which have particular relevance to social and vocational adequacy of mentally retarded children and youth.

377 Vocational Education for the Handicapped (3)

Prereq: admission to jr standing in teacher education. Roles of education, guidance, vocational training, placement, and follow-up service in promoting work adjustment of handicapped youth in the community.

378 Sheltered Workshop Organization (2)

Prereq: admission to jr standing in teacher education. Organization of sheltered workshop with emphasis on job analysis and contact work.

379 Homemaking and Family Living for the Handicapped (3)

Prereq: admission to jr standing in teacher education. *L. Jageman*. Designed to develop understanding of objectives, organization, methods, and materials essential to teaching handicapped child self-care, homemaking, and family living skills for his or her youth and adulthood.

400 Introduction to Emotionally Disturbed Children (3)

Prereq: admission to jr standing in teacher education. Basic understanding of emotional disturbances including causes, characteristics, and implications for behavioral and psycho-educational planning.

401 Teaching the Emotionally Disturbed Child (3)

Prereq: admission to jr standing and perm. Programs, methods, and materials used in education of emotionally disturbed child emphasizing a team-developed prescriptive educational and behavioral procedure.

435 Recreation and Physical Education for the Mentally Retarded and Learning Disabled (5)

Prereq: admission to jr standing in teacher education. Preparation for presenting activities and evaluating mentally retarded and learning disabled children and youth in areas of body mechanics, physical fitness, games of low organization, sports, rhythms, stunts, tumbling, and recreation activities.

470 Classroom Management with Problem Children (3)

Prereq: 271 and admission to teacher education. Discusses preventing behavior problems; identifying specific disturbing behavior; and learning to use behavior modification techniques in classroom.

474 Diagnosis and Remediation of Specific Learning Disabilities (4)

Prereq: admission to jr standing in teacher education. Techniques of assessing cerebral and perceptual dysfunctions and resultant cognitive and behavioral disorders with emphasis on neurological bases of sensory motor reaching approach to remediation.

475 Education of the Trainable Retarded (4)

Prereq: admission to jr standing in teacher education. Etiology, diagnosis, classification, learning potential, organization of curriculum, and teaching methodology for trainable retarded, including brain-damaged, cerebral palsied, and hyperactive children.

476 Teaching the Learning Disabled (4)

Prereq: admission to jr standing in teacher education and EdSp 474. Assignment of an individual child for purpose of doing a comprehensive evaluation of and writing a prescriptive program for the child.

477 Problems of Adjustment for the Handicapped (3)

Prereq: admission to jr standing in teacher education. Designed to promote understanding of theory and techniques of working with parents of exceptional children as well as promoting adjustment of child within family and community. Emphasis placed on interpreting conditions of handicap to parents and in helping parents to accept and integrate handicapped child into home and community.

478 Education of the Disadvantaged and Handicapped (3)

Prereq: admission to jr standing in teacher education. Problems and new approaches to education of disadvantaged children handicapped through intellectual impairment, sensory deficits, perceptual disorders, etc.

490 Study of Special Education (1-5, max 15)

Prereq: perm of dept chairman. Independent analysis of problems, special interests, concerns, with assigned and suggested readings, programmed experiences, and preparation of final report, with guidance of staff member.

PROFESSIONAL LABORATORY EXPERIENCES**360 Field Experience in Elementary or Secondary Schools (2)**

Prereq: jr rank, perm. (fall) *J. Evans*. Observation and participation for period of 2 wks at opening of school yr in September. Materials for this program available in Student Teaching Office during 1st wk of May each yr. Administrative approval of selected school system required.

361 Field Service in Education (2)

Prereq: soph rank. (fall) *J. Evans*. Participation in community agencies, summer camps, recreation programs, Head Start, and various school related programs other than September program (EdPL 360). Arrangements should be made during 1st wk of May in Student Teaching Office.

460 Observation and Participation in Elementary or Secondary Schools (3)

Prereq: perm. *J. Evans*. Extensive participation in school program extending over period of 1 qtr, designed primarily for students with some classroom teaching experience, especially students from other countries.

461 Student Teaching in Elementary Schools (7)

Prereq: perm. *J. Evans, staff*. Assigned responsibility for teaching under supervision of a master teacher in a classroom in K-6 range for 1 qtr, full-time. Concurrent registration in 461, 462, and 465 is required of all elementary education, speech therapy, and special education majors. Concurrent registration in 461, 463, and 465 is required of majors in art, music, and physical education.

462 Student Teaching in Elementary Schools (6)

Prereq: 461. Continuation of 461. See 461 for description.

463 Student Teaching in Secondary Schools (6)

Prereq: perm. *J. Evans, staff*. Assigned responsibility for teaching under supervision of a master teacher in a classroom in 7-12 range for 1 qtr, full-time. Concurrent registration in 463-464-465 is required of all majors in secondary academic areas, home economics, and industrial arts. Majors in art, music, and physical education must register concurrently for 461, 463, and 465.

464 Student Teaching in Secondary Schools (7)

Prereq: 463. Continuation of 463. See 463 for description.

465 Student Teaching Seminar (3)

J. Evans, staff. Analysis and interpretation of student teaching experience. Problem-centered discussion of major areas of concern directly related to classroom teaching. Structured discussion of unit and lesson planning, evaluation, classroom management, pupil adjustment, effects of recent legislation upon classroom teacher, position procurement, professional ethics, and professional organizations. Concurrent enrollment for 13 qtr hrs credit in student teaching is required.

466 Student Teaching for Advanced Students (6-9, max 9)

Prereq: perm. *J. Evans, staff*. Supervised observation, participation, and limited teaching; open only to elementary education degree candidates and selected secondary education and special education majors with a minimum of 3 yrs of prior teaching experience.

133 Basic Electronics (5)

Prereq: 1 yr h.s. algebra or perm. Provides each student with introductory knowledge of electricity and solid state electronics. Basic electrical terms, units, symbols, schematics, and code. Fundamentals of alternating current and direct current electricity. Ohms Law applied to series and parallel networks. Inductance and capacitance theory. Test equipment used for troubleshooting. Concluding with fundamentals of solid state theory and application. Operating characteristics of diodes, transistors, and I.Cs. Field trips will be part of the laboratory activity. 3 lec, 4 lab.

134 Direct Current Circuit Analysis (5)

Prereq: 133. Direct current electrical theory, application, and circuit analysis. 3 lec, 4 lab.

135 Alternating Current Circuit Analysis (5)

Prereq: 134, Math 118, or perm. Alternating current electrical theory, application, and circuit analysis. Sinusoidal wave forms, inductive reactance, resonance circuits, and RC circuits. Power transformers and polyphase systems. Power generation and distribution. 3 lec, 4 lab.

136 Electrical Motors and Control Circuits (5)

Prereq: 135 or perm. Industrial power rotating machines and electromechanical control. Motor principles, classification, and application. Motor control circuits, single phase, 3-phase systems, relays, and overload protection. Testing and maintenance procedures. Field trips part of lab activity. 3 lec, 4 lab.

137 Design and Production of Electric Circuits (3)

Prereq: 133 and EG 101 or perm. Printed circuit theory, design, application, and fabrication. 2 lec, 2 lab.

138 A.C. and D.C. Circuit Analysis (6)

Prereq: 133, Math 118, or perm. A.C. and D.C. electrical circuits. Application of network theorems to circuits containing resistors, capacitors, inductors, and transformers emphasized.

140 A-J Power Distribution Systems (1-5, max. 5 each segment)

Prereq: 135 or perm. (A) Residential Electrical Wiring, (B) Commercial Electrical Wiring, (C) Industrial Electrical Wiring, (D) National Electrical Code, (E) Low Voltage Wiring, (F) High Voltage Systems, (G) Fire Alarm Systems, (H) Electrical Safety, (I) Electrical Blueprints and Specifications, (J) New Developments in Power Distribution.

233 Solid State Devices (6)

Prereq: 135 or perm. Advanced study of solid state devices, their operating characteristics, and circuit analysis. Transistor amplifiers, bias, impedance matching and classes of operation, integrated circuit theory, and application. 3 lec, 6 lab.

234 Industrial Electronics and Linear Integrated Circuits (5)

Prereq: 233 or perm. Theory and application of solid state industrial control. Silicon control rectifiers, photoelectric, differential amplifiers, oscillators, and phase shift controls. Field trips part of lab activity. 3 lec, 4 lab.

235 Digital Electronics (10)

Prereq: 234 or perm. Comprehensive study of pulse and digital circuits used in industry. Wave shaping, switching circuits, trigger circuits, nonsinusoidal oscillators, and sequencing systems. Digital con-

ELECTRONICS TECHNOLOGY

The following courses for the AAS program in electronics technology are available only on the Lancaster campus.

cepts, Boolean algebra, logic circuits, memory circuits, arithmetic unit, and logic application to electronic control circuits. Field trips part of lab activity. 5 lec, 10 lab.

299 Special Problems (1-3, max 9)

Prereq: perm. Individual projects or internship experiences under the supervision of faculty member in electronics technology.

ENGINEERING AND TECHNOLOGY

100 Engineering and Technology (3)

Introductory course to engineering and technology for all students. Lectures in related fields and involvement in engineering problems through student-selected projects.

134 Electronic Maintenance (3)

Information on how to maintain and repair all types of electronic equipment. (e.g., hi-fi amplifiers, AM & FM receivers, digital logic circuits, etc.) No previous experience in electronics necessary. Demonstrations and lab experience will provide each student with theory and practical basic instructions on how to use test equipment. 1 hr lec, 4 hrs lab.

180 Problem Solving (3)

(fall, winter) Introduction to approach to problem solving by presenting, at fr level, many problems common to all branches of engineering such as balance of forces, materials, energy, and transport relationships. Real-world problems and situations described in mathematical terms, and alternative methods of problem solutions presented, showing need for more advanced techniques and knowledge that student will acquire in later mathematics, engineering, and science courses.

180A Problem Solving (3)

Prereq: perm. (summer) Emphasizes problem solving and applications. Topics covered: variables, functions, limits, derivative, differentiation, tangents and normals, problems in maxima and minima, motion, curves and curvature, vectors, polar coordinates, differentials, series.

180B Problem Solving (3)

Prereq: perm. (summer) Emphasizes problem solving and application. Topics covered: plane areas, volumes, centroids, moments of inertia, fluid pressure, work, arc length, area of solids, variable properties.

240 Introduction to Computer Solutions of Engineering Problems (4)

Prereq: Math 263C or with Math 263C or perm. (fall, winter) Introduction to application of digital computation techniques to engineering problems. Techniques of programming, including FORTRAN, GPSS, etc., useful for solution of engineering problems and use of peripheral equipment.

320 History of Western Technology (3)

Survey of significant technological innovations of western civilization from Greco-Roman period into 20th century. Interrelationships, in history, between technology and society. Background in technology or science not required.

322 Introduction to Materials Behavior (3)

Introductory materials science course covering behavior of metals, polymers, and ceramics for non-technical majors.

325 Pollution Solutions I (3)

Aspects of air pollution and control within our technology. Problems, solutions, and economics of air pollution with guest speakers on topics of class interest.

326 Pollution Solutions II (3)

Same course description as 325 covering different aspects and topics. Not a continuation of 325.

331 Fluid Dynamics for Nonengineers (3)

Prereq: jr standing or perm. Not open to engineering students. A physical, not mathematical, introduction to principles controlling fluid motions in our environment. Study of weather, blood circulation, aerodynamics, river hydraulics, and rocketry through design of golf balls and plumbing systems included. Introduction to mechanics, fluid properties, fluids at rest and in motion. Lectures and reading assignments supplemented with films.

334 Water Pollution Control (3)

Prereq: soph rank. Designed for student with limited technical background but who is interested in problems of water pollution. Deals with nature of water, source and character of pollutants, technology of waste-water renovation, ecology of water pollution and legal, economic and administrative constraints.

337 Transportation Today (3)

Prereq: jr standing or perm, not open to civil engineering majors. Designed for student with limited technical background who is interested in gaining knowledge in area of highway and transportation planning and design. Major topics include geometric factors, traffic studies, modes of transportation, human equation, and planning strategies.

345 Fundamentals of Analog Computation (3)

Prereq: Math 340. Basic operation of analog computer and auxiliary equipment. Solution of linear and nonlinear differential equations and simulation of physical systems on analog computer.

350 Engineering and the Technological Society (3)

Prereq: jr or sr rank. (winter) Technical inventions and social inventions, impact and social consequences of engineering. Focus deals with technology and human work. Alternative futures considered. Discussion and lecture format used.

360 Communication Technology (3)

(winter) Introduction to theory and application of electronic devices and systems employed in communications. Topics include among others man-to-computer communication, CRT terminals, radio and television receivers and transmitters, communication satellites, information transmission by light waves. Not open for credit to engineering majors.

470 Energy and the Environment (3)

(fall, spring) Examinations of ramifications of energy in contemporary society. Energy uses; problems of production; availability of reserves; economic and political considerations; environmental impact; fission, fusion, solar, and other future conversion techniques. Course designed to prepare individual for effective participation in societal actions related to energy and power.

ENGINEERING, CHEMICAL

200 Introduction to Chemical Engineering (4)

Prereq: Chem 143. (fall, spring) Applications of chemistry, physics, and mathematics to solution of material and energy balances typical of those encountered in process industries. 3 lec, 2 lab.

302 Chemical Engineering Thermodynamics and Kinetics (5)

Prereq: 200. (fall) Application of thermodynamics to chemical engineering problems, including problems in chemical equilibrium for homogeneous and heterogeneous systems, mixtures, and pure materials. Applications of chemical kinetics to design of chemical reactor systems. 5 lec.

303 Chemical Engineering Thermodynamics and Kinetics (4)

Prereq: 302. (winter) Continuation of 302. See 302 for description. 3 lec, 2 lab.

304 Chemical Engineering Thermodynamics and Kinetics (4)

Prereq: 303, Math 340. (spring) Continuation of 302-303. See 302 for description. 3 lec, 2 lab.

331 Principles of Engineering Materials (4)

Prereq: Chem 122 or 143. (fall, spring, summer) Fundamental principles underlying behavior of engineering materials. Relationship between structure and properties of ceramic, metallic, and polymeric materials. 4 lec.

342 Unit Operations I (5)

Prereq: 200, Math 340. (fall) Fundamental principles of fluid flow, heat, and mass transfer.

343 Unit Operations II (3)

Prereq: 200. (spring) Stagewise processes including distillation and extractions. 3 lec, 2 lab.

344 Unit Operations III (5)

Prereq: 343, 331. (winter) Continuation of 342. See 342 for description. 4 lec, 2 lab.

363 Chemical Engineering Lab I — Synthesis and Analysis I (2)

Prereq: 342, Math 340. (winter) Lab emphasizing use of digital computers for analyzing chemical engineering problems. 1 lec, 2 lab.

400 Applied Chemical Engineering Calculations (5)

Prereq: 344, 304, Math 340. (spring) Solution of ordinary differential equations of chemical engineering, series solutions, Laplace transforms, computer synthesis and analysis, unsteady heat transfer, packed and real tower design.

415 Chemical Engineering Lab III (3)

Prereq: 344, 304. (fall) Lab practice to illustrate principles of selected unit operations, thermodynamics and applied kinetics; and to aid student in gaining confidence in handling of chemical engineering equipment. Development of ability to devise and conduct chemical engineering experiments with minimum supervision and to report results satisfactorily stressed.

416 Chemical Engineering Lab IV (3)

Prereq: 344, 304. (spring) Continuation of 415. See 415 for description.

417 Chemical Engineering Lab V (2)

Prereq: 416, 442. (winter) Continuation of 442. 2 lec, 2 lab.

418 Chemical Engineering Lab VI — Materials (2)

Prereq: 331. (fall, winter, spring, summer) Demonstrations and experiments supporting relationships which exist between structure and properties of ceramic, metallic and polymeric materials. 4 lab.

419 Chemical Engineering Lab VII — Advanced Materials (1-2)

Prereq: with advanced materials courses or perm. Individual and small group investigation of advanced problems involving chemical, mechanical, physical, or design parameters of materials, materials structure, or fabrication. Investigations may involve ceramics, metal, polymers, or composites. 2 lab for each hr of credit.

421 Unit Processes (3)

Prereq: 344, with 344, or perm. (winter) Typical inorganic and organic processes, with emphasis on application of thermodynamic and kinetic theory and on raw material and energy sources, to design and operation of these processes. 3 lec.

430 Metallic Corrosion (4)

Prereq: 418. (fall, spring) Basic principles of corrosion including electrochemical foundation, influence of environment, stress, strain, and structure. Selected lab experiments. 4 lec.

433 Physical Metallurgy (4)

Prereq: 418. Mechanisms, kinetics and crystallography of reactions in metallic solids. Selected lab experiments for illustration of principles. 4 lec.

442 Process Control and Simulation (4)

Prereq: 344, 400, 414. (fall) Simulation and control of chemical processes. Feedback control using root loci and Bode diagrams is covered. 3 lec, 2 lab.

443 Chemical Engineering Design (4)

Prereq: 304 or perm. (fall) Preliminary process design of chemical plant and its economic evaluation plus additional detail design problems. Involves a trip, which usually lasts 3 days, to various chemical plants. Student responsible for own expenses on this trip. 3 lec, 2 rec.

444 Chemical Engineering Design (3)

Prereq: 443. (winter) Continuation of 443. See 443 for description.

445 The Application of Engineering Design to the Environment (3)

Prereq: 443 or perm. Use of chemical engineering fundamentals to approach a socially significant problem. Students expected to research problem and come up with definite specific solutions which they will then evaluate. 3 lec.

452 Introduction to Transport Phenomena (3)

Prereq: 344, 400. Heat mass and momentum transfer from a theoretical basis. Presentation of boundary-layer theory and its comparison with other theoretical and semi-theoretical approaches. 3 lec.

460 Atmospheric Pollution Control (3)

Prereq: 303 or ME 321 or perm. Sources of air pollution from major industries, internal combustion engines, and other sources. Techniques available for measuring particulate and gaseous pollutants in atmosphere and at their sources. Techniques available for control and future possibilities for control of air pollution. Bases for air pollution legislation. 3 lec.

471 Physical Chemistry of Macromolecules (3)

Prereq: Chem 454. Effects of structure and molecu-

lar weight on physical and chemical properties of macromolecules. Topics include molecular weight distribution, solubility, polymer conformation, different types of polymers, synthesis, and reactions. Both synthetic and natural polymers considered.

474 Introduction to Polymer Engineering (4)

Prereq: 342 and 471 or 477 or perm. For students with little or no experience in production and fabrication of polymeric materials. Emphasis on subjects of melt rheology, extrusion, and injection molding of polymeric materials.

477 Introduction to Polymer Synthesis (4)

Prereq: 304 or with 305. To develop a thorough understanding of mechanisms, kinetics, and systems used for synthesis of polymeric materials. Effect of synthesis variations upon properties and reactor design also discussed.

480 Colloquium (1)

Prereq: sr rank. (winter) Lectures, mainly by speakers outside the engineering field, on cultural and professional subjects, with discussion moderated by speakers. 1 lec.

490 Special Investigations (1-3; max 9)

Prereq: perm. Individual or small-group work, under staff guidance, in research or advanced study in a particular field of chemical engineering.

491 Chemical Engineering Honors (1-18, max 20)

Prereq: 3.5 accum or above, satisfactory departmental evaluation of potential. Independent departmental honors research resulting in a thesis. Credit-noncredit.

ENGINEERING, CIVIL

210 Plane Surveying (4)

Prereq: trigonometry. (fall, spring) Basic theory and field practice in measurement of distance, elevation, and angle; introduction to photogrammetry. 3 lec, 3 lab.

220 Statics (4)

Prereq: Math 263C or with 263C. Laws of equilibrium of forces, friction, centroids, and moment of inertia. Not open to srs. 4 lec.

222 Strength of Materials (4)

Prereq: grade of C or better in 220 or perm. Simple stresses and strains, bending, torsion, beam deflection, columns, and combined stresses. 4 lec.

223 Strength of Materials Laboratory (1)

Prereq: 222 or with 222. Testing of various materials under axial compression, tension, flexure, torsion, impact. Use of electrical, mechanical, and photoelastic strain measuring equipment. 2 lab.

311 Route Engineering (4)

Prereq: 210 or perm. (winter) Horizontal and vertical curves; geometric design of highways; earthwork distribution; introduction to engineering economy. 4 lec.

321 Dynamics (4)

Prereq: grade of C or better in 220 or perm. Motion of particles and rigid bodies, work and energy, impulse and momentum. 4 lec.

330 Structural Theory I (5)

Prereq: grade of C or better in 222 or perm. (fall) Classical and modern methods of analysis including matrix methods with computer applications. 5 lec.

331 Structural Theory II (3)

Prereq: 330. (winter) Continuation of 330. 3 lec.

340 Fluid Mechanics (5)

Prereq: grade of C or better in 321 or perm. Statics and dynamics of viscous and nonviscous fluids, dimensional analysis and similitude, 1-dimensional gas dynamics, pipe flow, principles of lift and drag, introduction to boundary layers. 5 lec.

341 Fluid Mechanics Laboratory (1)

Prereq: 340 or with 340. Laboratory techniques, calibration principles, fluid and flow measurements. 2 lab.

342 Applied Hydraulics (3)

Prereq: 340. (spring) Flow and pressure distribution in multi-loop networks, dynamics of flow in pumps and turbines, uniform and nonuniform flow in open channels, culvert hydraulics, hydraulic transients. 2 lec, 2 lab.

343 Hydrology (4)

Prereq: 340, ISE 304 or with ISE 304. (spring) Precipitation and runoff data; groundwater hydraulics; infiltration; peak runoff calculations. Application to water resource problems. 4 lec.

361 Transportation Engineering (4)

Prereq: 311; nonmajors by perm. (spring) Comparative analysis of various modes of transportation, with emphasis on inherent advantages and disadvantages of each; planning process applied to transportation facilities. 4 lec.

370 Soil Engineering (4)

Prereq: grade of C or better in 222 or perm. (winter) Soil compositions, physical and chemical properties, and classifications; water movement and seepage problems; consolidation and shear strength; applications to earth structures, retaining walls, slope stability, bearing capacity, and settlement. May be taken as 570 for graduate credit except by civil engineers. 3 lec, 2 lab.

410 Surveying II (3)

Prereq: 210. (spring) Triangulation; astronomical observations; land surveying; instrument adjustments; special topics. 2 lec, 3 lab.

415 Photogrammetry (3)

Prereq: 210 or perm. (winter) Equipment and methods used in aerial photography and land measurement. 2 lec, 2 lab.

423 Continuum Mechanics (4)

Prereq: 321, Math 340. (spring) Matrix methods in mechanics and structures; laws of dynamics; mechanical properties of solids and fluids, basic theories of continuum mechanics. 4 lec.

424 Strength of Materials II (3)

Prereq: 222. (fall) Unsymmetrical bending, shear centers, columns, and a continuation of basic topics usually taught in Strength of Materials I. 3 lec.

425 Advanced Strength of Materials (4)

Prereq: 222, Math 340. (fall) Advanced treatment of theories of failure, stresses, and strains at a point, cross shear, unsymmetrical bending, curved beams, torsion, thick-walled cylinders, energy methods. Graduate-level course open to selected undergraduates. 4 lec.

426 Theory of Stability (3)

Prereq: 222. (winter) Buckling of columns, beam columns, plates, and rings. 3 lec.

427 Experimental Stress Analysis (3)

Prereq: 424 or 425. (spring) Experimental methods of stress determination including photoelasticity, stress coat and electric strain gauge techniques; stress analogies; strain rosettes for combined stress determinations. Graduate-level course open to selected undergraduates. 2 lec.

428 Theory of Elasticity and Applications (3)

Prereq: 222, Math 340 and perm. (fall) Equations of equilibrium and compatibility; stresses and strains in beams, curved members, thick cylinders, and structural member torsion. Graduate-level course open to selected undergraduates. 3 lec.

429 Mathematical Theory of Elasticity (3)

Prereq: 428. (winter) Fundamental equations and problems of elasticity theory; methods of stress functions and displacement potentials; finite element applications. Graduate-level course open to selected undergraduates. 3 lec.

432 Structural Design in Concrete (4)

Prereq: grade of C or better in 222 or perm. (winter) Analysis and design of reinforced concrete members and structures, prestressed concrete members. 4 lec.

433 Structural Design in Steel (4)

Prereq: grade of C or better in 222 or perm. (fall) Analysis and design of structural-steel members and structures. 4 lec.

434 Structural Design II (3)

Prereq: 432, 433, 331. (spring) Design of complete structures or major components of structures. 3 lec.

435 Advanced Structural Theory I (4)

Prereq: 331. (fall) Analysis of indeterminate structures by both classical and modern methods. Analysis of multistory bents, arches, closed rings, and frames with variable cross-sections. Plastic theory and design. 4 lec.

436 Advanced Structural Theory II (4)

Prereq: 435. (winter) Continuation of 435. Relaxation methods, matrix methods, shell structures. 4 lec.

437 Advanced Structural Design (4)

Prereq: 436. (spring) Modern design concepts and principles as applied to various construction materials. 4 lec.

443 Open Channel Hydraulics (3)

Prereq: 340. (spring) Principles of uniform and varied flow. Channel design for uniform flow, gradually varied flow profiles, channel transition, hydraulic jumps, flow in prismatic and nonprismatic channels. Graduate-level course open to selected undergraduates. 3 lec.

446 Potential Flow Theory (3)

Prereq: 340 and/or perm. (fall) Inviscid flow theory. General equations of fluid dynamics, study of potential flow. Graduate-level course open to selected undergraduates. 3 lec.

447 Viscous Flow Theory (3)

Prereq: 340 and/or perm. (winter) Mechanics of fluid resistance, laminar, and turbulent flow. Applications to external boundary layer flow and to flow in

ducts. Graduate-level course open to selected undergraduates. 3 lec.

450 Water Treatment (3)

Prereq: 342-343, Chem 123. (fall) Sources and collection of public water supplies; principles of treatment processes. 3 lec.

451 Wastewater Treatment (3)

Prereq: 342, 343. (winter) Quantities and collection of municipal wastewater; principles of treatment processes. 3 lec.

452 Water and Wastewater Analysis (3)

Prereq: Chem 123. (fall) Laboratory methods and interpretation of results for chemical and bacteriological examination of water and wastewater. 2 lec, 3 lab.

455 Water Treatment II (4)

Prereq: 450, 452, or perm. (winter) Theory; design of treatment units; laboratory experiments demonstrating basic principles. 3 lec, 3 lab.

456 Wastewater Treatment II (4)

Prereq: 451, 452, or perm. (spring) Theory; design of treatment units; laboratory experiments demonstrating basic principles. 3 lec, 3 lab.

457 Water Resources Engineering (3)

Prereq: 343 or perm. (winter) Elective sr civil engineering course designed to provide an integrated treatment of water resources engineering, including hydrological measurements, runoff, ground water, water law, reservoir design, frequency analysis, economics, planning, flood control, and water-quality control. Systems approach to multi-purpose water resource projects will be emphasized. 3 lec.

458 Water Quality Engineering (3)

Prereq: perm. (spring) Natural and man-made characteristics of water quality, changes in quality resulting from use, criteria for control of stream pollution, methods of improving water quality, also legal, economic, and institutional aspects. Graduate-level course open to selected undergraduates. 3 lec.

462 Traffic Engineering (3)

Prereq: 361, nonmajors by perm. (winter) Vehicle and driver characteristics, uses of traffic control devices, intersection design and capacity, parking characteristics. 3 lec.

463 Traffic Parameters (4)

Prereq: perm. (fall) Vehicle-highway relationships, including vehicle performance and highway geometry. Consideration of highway capacities and their influence on design. 4 lec.

464 Transportation Data Methods (4)

Prereq: perm. (winter) Introduction to traffic survey methods, data collection, and evaluation. Topics include origin-destination, speed, parking, accident, and future development studies. 4 lec.

465 Traffic Regulations and Controls (4)

Prereq: perm, 463. (spring) Typical traffic ordinances and regulations and their utilization to control traffic through use of signs, markings, and control devices. Traffic signals, including their use as single units or as a progressive series. 4 lec.

467 Traffic Studies I (I-4)

Prereq: 464. (spring) Practical problems relating to traffic surveys and data analysis.

468 Traffic Studies II (1-4)

Prereq: 465. (winter) Practical problems relating to vehicular characteristics and traffic movements.

471 Foundation Engineering (3)

Prereq: 370. (fall) Design and construction problems in soil engineering: subsurface investigation, foundation selection and design criteria, principles of design of shallow and deep foundations, site improvement. 3 lec.

472 Soil Mechanics I (3)

Prereq: 370. (fall) Water movement through soil, construction and interpretation of flow nets. Elastic equilibrium and stress distributions. Compressibility and settlement of cohesive and noncohesive soil; consolidation theory. 2 lec, 2 lab.

473 Soil Mechanics II (3)

Prereq: 472. (winter) Stability of footings (bearing capacity), retaining walls, and slopes. 2 lec, 2 lab.

474 Soil Mechanics Laboratory (1)

Prereq: 472 and 473. (spring) Advanced techniques for measurement of soil engineering properties. 3 lab.

475 Advanced Foundation Engineering (3)

Prereq: 471. Design of shallow and deep foundations for complex or unusual soil conditions; design of earth retaining structures including retaining walls, cofferdams, and sheet-pile bulkheads; site improvement; performance evaluation and instrumentation. 3 lec.

476 Soil Stabilization (4)

Prereq: 370. (fall) Engineering, geological, and pedological soil classification systems. Mineralogy of clay minerals and clay-water systems; requirements for and factors affecting soil stability. Methods and mechanisms of soil stabilization; design and testing stabilized soils. 3 lec, 2 lab.

481 Pavement Design (3)

Prereq: 370. (spring) Types and uses of various paving materials and mixtures; theory and practice in design, construction, and maintenance of various types of highway and airport pavements. 2 lec, 2 lab.

482 Paving Materials and Mixtures (3)

Prereq: perm. (winter) Types, constituents, chemical behavior, tests, specifications, and uses of bituminous materials, Portland cements, and aggregates in pavements. Design and manufacture of paving mixtures and construction of pavements. 2 lec, 3 lab.

483 Principles of Pavement Design (3)

Prereq: 370. (spring) Fundamentals of wheel loads and stresses in pavements. Properties in pavement components and tests. Design methods and evaluations. 3 lec.

490 Special Investigations (1-5)

Prereq: perm. (fall, winter, spring, summer) Special investigation or problem not covered by formal courses. Permits well-qualified student to pursue individual study under direction of faculty member.

ENGINEERING, ELECTRICAL

111 Consumer Electronics (2)

(fall, spring) Provides useful purchasing and other decision-making information such as explanations of

specifications, and descriptions of operation of consumer-grade high-fidelity equipment. Topics included are audio amplifiers, preamplifiers, loud-speaker systems, phonographs, phono cartridges, AM and FM tuners, receivers, tape decks, tape selection, headphones, noise reduction systems, 4-channel (quad) sound equipment. Also included are demonstrations and equipment comparisons.

150 Electronic Arts in Music (2)

(fall, spring) Survey of range of electronic techniques used in reproduction and synthesis of musical sounds. Basic acoustics, music amplifiers, analog and digital music synthesizers, computer music, keyboard electronic instruments, and trends in musical instrument engineering covered with selected demonstrations of hardware.

210 Circuit Analysis I (4)

Prereq: Math 263A. (fall, winter) Basic concepts and definitions, units, DC circuit analysis, Kirchhoff's laws, source transformations, mesh and nodal analysis, network theorems, magnetic circuits. 3 lec plus 2 hrs computation.

211 Circuit Analysis II (4)

Prereq: 210 and Math 263B. (winter, spring) Continuation of 210. Inductance and capacitance, DC transients, periodic functions, average and RMS, complex numbers, phasors, sinusoidal steady state circuit analysis. 3 lec plus computation.

212 Circuit Analysis III (4)

Prereq: 211. (fall, spring, summer) Continuation of 211. AC network theorems, coupled circuits, frequency response, polyphase circuit analysis. 3 lec plus computation.

221 Instrumentation and Computation Laboratory II (3)

Prereq: 210 and/or with 211. (winter, spring) Theory and applications of laboratory instruments. Laboratory experimentation involving electrical and magnetic phenomenon.

222 Instrumentation and Computation Laboratory III (3)

Prereq: 221 and/or with Math 340. (spring, summer) Fundamentals of analog computation and analog computer experiments. Theory and applications of laboratory instruments. Laboratory experimentation.

222A Analog Computation (2)

Prereq: perm. (winter) Fundamentals of system simulation using analog computer including equation formulation, magnitude scaling, and time scaling. Laboratory experimentation using analog computers. Primarily for transfer students from 2-yr technical institutes.

232 Analytical Foundations of Electrical Engineering (5)

Prereq: Math 340 or with Math 340 and EE 211. (spring, summer, fall) Vector analysis with applications to electromagnetic fields. Matrix theory with applications to state variable formulation of linear and nonlinear systems. Complex variable theory with applications to systems, in preparation for Laplace transforms, etc. Special analytical techniques for the solution of complex electrical engineering problems with emphasis on computer-oriented techniques.

250A Electrical Engineering I (4)

Prereq: perm. (summer) Special course in direct current and alternating current analysis using calculus,

primarily for transfer students from 2-yr technical institutions.

250B Electrical Engineering II (4)

Prereq: perm. (summer) Continuation of 250A, including 3-phase circuits (balanced and unbalanced), transients, frequency response, etc.

301 Intermediate Laboratory I (1)

Prereq: 221 and jr standing. (fall, winter, spring) Intermediate laboratory provides student with opportunity to formulate his or her own experiments and perform them on an open-shop basis. Experiments must receive faculty approval as to content and area of investigation with results presented in written report. This lab sequence must be taken concurrently with required 300-level lecture courses.

302 Intermediate Laboratory II (1)

Prereq: 301. (fall, winter, spring) See 301 for description.

303 Intermediate Laboratory III (1)

Prereq: 302. (fall, winter, spring) See 301 for description.

304 Basic Electrical Laboratory I (1)

Prereq: 313, or with 313. (fall, winter) Lab supplement to 313. Basic instruments and circuit measurements. 2 lab.

305 Basic Electrical Laboratory II (1)

Prereq: 304 and 314, or with 314. (winter, spring) Lab supplement to 314. Operation of electronic devices, transformer, and rotating machines. 2 lab.

310 Linear Systems and Networks I (4)

Prereq: 212 or 313. (fall, winter) Fourier series, Fourier integral and transforms, direct and inverse Laplace transformation with associated theorems, network theorems, flow graphs, and Z-transforms.

312 Linear Systems and Networks II (4)

Prereq: 310. (spring, fall) State equations and their formulation, time domain solution of state equations, integral solution by convolution, difference equations and discrete state equations, 2-port parameters and interconnections, and system stability.

313 Basic Electrical Engineering I (3)

Prereq: Math 263B. DC, steady-state single phase AC, balanced polyphase, and magnetic circuits. Not open for credit to electrical engineering majors. 3 lec.

314 Basic Electrical Engineering II (3)

Prereq: 313. Electronic devices, models, transformers, and steady state performance of rotating machines. Not open for credit to electrical engineering majors. 3 lec.

321 Electromagnetics and Materials I (4)

Prereq: 212, 232. (winter, spring) Introductory treatment of static electric and magnetic fields in free space and stationary matter and physical properties of fields, charges, and currents. Included are: electromagnetic field vectors and field equations, boundary conditions, Poisson's equation, solutions of Laplace's equation for scalar electric and magnetic potentials, vector potential, polarization and magnetization charges and currents, and a unified macroscopic treatment of fields in matter. Electromagnetic energy.

322 Electromagnetics and Materials II (4)

Prereq: 321. (spring, summer, fall) Continuation of

321. Discussion of time-varying, electromagnetic fields. Application of field theory to solution of problems from various branches of electrical engineering with emphasis upon physical interpretation. Included are: relation of field theory to circuit theory, Poynting's theorem, stored energy and power flow, complex fields and power, TEM waves, uniform plane wave, wave reflection and refraction.

330 Energy Conversion I (4)

Prereq: 212. (winter) Principles of energy conversion utilizing both electrostatic and electromagnetic forces. Properties of magnetic materials including study of eddy-current and hysteresis effects. Single phase and polyphase transformers theory and applications.

331 Energy Conversion II (4)

Prereq: 330. (spring) Direct current generators and motors, evolving field theory; polyphase induction motors including motor theory and equivalent circuits. Synchronous alternator and motor theory including synchronous condenser applications for power-factor correction.

340 Electronics I (4)

Prereq: 212. (fall) Introduction to electrical signals and their processing by electronic devices. Gain frequency response in ideal linear and nonideal amplifiers. Bipolar and field-effect transistors, linear integrated circuits.

341 Electronics II (4)

Prereq: 212. (winter) Continuation of 340. Waveform generation, digital logic, large-signal amplifiers, power supplies.

381 Internship in Electrical Engineering (1-3)

Prereq: jr rank and perm. (fall, winter, spring, summer) Supervised work-study program, in electrical engineering profession, in established industrial environment. Credit dependent on advanced registration and mutual agreement between faculty supervisor and participating company. May be repeated; however, hrs applied for graduation limited by dept.

401 Advanced Laboratory I (1-3)

Prereq: 303 or perm. (fall, winter, spring) Advanced lab format follows that of intermediate lab. Student-proposed projects are design- or research-oriented and directed by a faculty member specializing in area of investigation. Portion of this lab required in conjunction with certain electrical engineering 400-level lecture courses. Student taking 400-level electrical engineering courses must register for minimum of 1 credit hr of advanced lab per qtr — 5 credit hrs of advanced lab required for graduation.

402 Advanced Laboratory II (1-3)

Prereq: 303. (fall, winter, spring) See 401 for description.

403 Advanced Laboratory III (1-3)

Prereq: 303. (fall, winter, spring) See 401 for description.

405 Semiconductor Principles (3)

Prereq: 322 and 341. (on demand) Simplified 1-dimensional band theory of solids. Valence and conduction band occupancy from Fermi-Dirac statistics. Hole conduction and doping. Derivation of PN junction volt-amp-temperature characteristic. DC and AC characteristics of junction transistors derived from fundamentals.

406 Advanced Electronic Circuits I (3)

Prereq: 341. (fall) Advanced analog circuitry. Operational amplifiers, characteristics, limitations. Linear and nonlinear applications. Feedback, stability criteria, compensation, time, and frequency response. Waveform generation and shaping, timing, comparison, arithmetic operations.

407 Advanced Electronic Circuits II (3)

Prereq: 341. (winter) Advanced digital circuitry. Basic logic operations, digital device families, and characteristics. Arithmetic, counting, memory, other MSI and LSI functions. Numeric display devices. Analog/digital conversion.

408 Advanced Electronic Circuits III (3)

Prereq: 406. (on demand) Solid-state communications circuitry. Receiver principles and design; stability and gain considerations. Transmitter and modulator principles and design; power gain, high frequency matching networks.

409 Solid State Instrument Design (3)

Prereq: 341. Electronic instruments and instrument subassemblies including amplifiers, waveform generators, oscilloscopes, TVMs, DMMs, A/D and D/A converters, etc. using state of the art solid state devices, both discrete and integrated.

411 Passive Filter Synthesis (3)

Prereq: 312. (fall) Principles of filter synthesis, positive-real functions, synthesis of 1-port networks, synthesis of 2-port networks, approximation, frequency transformations, and filter design.

412 Active Filter Synthesis (3)

Prereq: 411. (winter) Principles of active filter synthesis, active filter elements, realization of active 2-port networks, multiple feedback filters, explicit formulas and practical filter design, and active filter design using optimization.

413 Digital Filter Design (3)

Prereq: 411 and 412. Principles of digital filter design, z-transform, discrete Fourier transform, representations of digital filters, digital filter design techniques, and computer methods in digital filter design.

425 Automatic Control I (3)

Prereq: 312 or with 312. (fall) Formulation of linear models for lumped-parameter physical systems, fundamental principles of closed-loop control, signal flow graphs, Routh-Hurwitz criteria; Root locus method, Bode plots; introduction to control system using Root locus and Bode plots.

426 Automatic Control II (3)

Prereq: 425. (winter) Nyquist stability criterion, Nichols charts, cascade and feedback compensation, frequency domain performance specifications, minor loop design.

427 Automatic Control III (3)

Prereq: 426. (spring) Sampled-data systems, Z-transforms, sampled-data system design using digital compensators; carrier control systems; state-space concepts, designing of control systems using state variable feedback.

430 Theory of Measurement (3)

Prereq: 341. Dynamics of AC and DC instruments, null measurement techniques, statistical errors, transducers, mechanical magnetic movements, digital instruments, calibration, accuracy, and repeatability.

440 Microwave Theory and Devices (3)

Prereq: perm. (fall) High frequency generation and transmission of electromagnetic energy, transmission lines, waveguides, impedance matching, transient analysis, microwave sources, laboratory demonstrations.

441 Antennas (3)

Prereq: perm. (winter) Basic definitions and theorems, vector potential, small antennas, arrays, wire antennas, aperture antennas, multi-frequency antenna design, pattern synthesis, discussion of practical examples.

442 Introduction to Radar and Aircraft Navigation Systems (3)

Prereq: 322 or perm. (spring) Discussion of radar as applied to aviation requirements of surveillance, approach and landing, weather avoidance; presentation of principles of VOR, DME, RNAV, ILS, ADF, Loran, Omega.

443 Electromagnetics I (3)

Prereq: 322, Math 340. (fall) Mathematical review of vector operations in Cartesian and curvilinear coordinates. Solution of wave equation in Cartesian coordinates and application to wave reflection from interfaces between general media. Decomposition of wave solutions into TE, TM, and TEM waves, with application to waveguides and transmission lines; solution of wave equation in cylindrical coordinates, with application to circular waveguide, radiation from line sources, and scattering from cylindrical objects.

450 Control of Electrical Machinery (3)

Prereq: 331. Magnetic and electronic motor controllers including study of control theory and application to given problems.

451 Symmetrical Components (3)

Prereq: 331. (fall) Circuits analysis by symmetrical components, representation of unbalanced poly-phase currents and voltages by component symmetrical sets, solutions of faults on power systems, unbalanced operation of power equipment, single-phase induction motor analysis.

452 Power Transmission (3)

Prereq: 331. (fall) Economic and electrical principles of electrical power lines, mechanical principles of transmission line design.

453 Power Distribution (3)

Prereq: 331. (winter) Purposes of protective relaying, relay characteristics, overcurrent protection and coordination using relays and fuses, distance relaying, circuit breakers, reclosers and instrument transformers.

454 Electrical Design (3)

Prereq: 331. Design relationship of electrical machinery, including design of machine and predetermining of its performance.

458 Power System Stability Studies (3)

Prereq: 331, 451 or perm. (winter) Problems pertaining to stability of large power systems, both synchronous and asynchronous loadings, maximum use of digital computer techniques, and matrix algebra. Each student will present paper on individually assigned problems.

460 Hybrid Computation and Digital Simulation (3)

Prereq: perm. (spring) Solutions of problems on

analog/digital computers and on analog computers with programmable logic. Digital simulation languages. Solutions of engineering problems by digital simulation.

461 Digital Systems I (3)

Prereq: 341. (fall) Postulates and fundamental theorems of Boolean algebra; algebraic and map methods for design of combinational logic and simple sequential circuits; logic minimization methods; introduction to system design using shift registers, counters, etc.

462 Digital Systems II (3)

Prereq: 461. (winter) Basic concepts from theory of finite-state machines; analysis and synthesis of sequential circuits; study of state assignment; synchronous and asynchronous machines; system design using integrated circuits.

463 Digital Systems III (3)

Prereq: 462. (spring) Basic partition theory for sequential machine design. Synthesis of machines using ROMs and RAMs. Introduction to computer organization and design including selection of instruction set, definition of functional characteristics of subsystems, and implementation of control logic.

470 Communication Engineering (3)

Prereq: 312 and 341. (fall) Unified approach to communications stressing principles common to all transmission systems. Review of Fourier series. Fourier integral and complex frequency techniques with emphasis on communication networks, time response and convolution, measurement of information, amplitude modulation (double and single sideband techniques), frequency modulation, sampling theory, pulse modulation systems, fundamentals of random signal theory and its application to communication systems, noise and its effect on conventional modulation systems; noise figure, noise suppression techniques, and other related topics.

471 Statistical Analysis (3)

Prereq: 312. (winter) Analysis of engineering problems using probabilistic and statistical concepts: probability, discrete and continuous random variables, distribution functions, means, moments, characteristic functions, statistical independence, correlation, estimation, and applications to engineering problems.

472 Random Signals in Linear Systems (3)

Prereq: 471 or perm. (spring) Introduction to random electrical signals and noise. Autocorrelation, crosscorrelation, power spectra, Nth law detectors, matched filters, detection of signals in noise, optimum receivers, Bayes estimators.

481 Internship in

Electrical Engineering (1-3)

Prereq: sr rank and perm. (fall, winter, spring, summer) Supervised work-study program, in electrical engineering profession, in established industrial environment. Credit dependent on advanced registration and mutual agreement between faculty supervisor and participating company. May be repeated; however, hrs applied for graduation limited by dept.

488 Analysis of Engineering Problems (3)

Prereq: perm. Basic philosophy, methodology, and viewpoint developed for solution determination. Comparison made for applicability of empirical and theoretical analytical techniques to both linear and nonlinear situations. Characterization via mathematical models utilized for problem synthesis.

Trade-off studies as practical technique for parameter value selection and influence-effect relationships.

490 Selected Topics (1-3)

Prereq: perm. Selected topics of current interest in electrical engineering.

490A Space Communications (3)

Prereq: 312 and 341. (on demand) Communications links with examples taken from space applications. Includes considerations of data encoding, modulation technique, antenna gains, space loss, system noise, and demodulation techniques.

490B Electric Energy System Engineering (3)

Prereq: 458 or perm. (spring) Principles of economic operation and control of isolated or interconnected electric power systems. Generation system expansion planning including production cost methods. Probabilistic simulation of power systems.

490G Direct Energy Conversion (3)

Prereq: 342, ME 321. Photovoltaic converters, magnetohydrodynamics, fuel cells, thermoelectric converters.

490H Propagation of Radio Waves (3)

Prereq: 322. (no regular schedule) Review of fundamentals of electromagnetic waves, ground wave propagation, surface wave, wave propagation in ferrites, properties of ionosphere, and sky wave propagation.

490I Introduction to Plasma Dynamics (3)

Prereq: 321, 322. (no regular schedule) Review of electromagnetic theory, motion of charged particles in given electromagnetic fields. Magnetoionic theory, propagation, and excitation of waves in plasma.

490J Antennas II (3)

Prereq: perm. (spring) Analysis and synthesis of linear and planar radiating systems; Fresnel and near zone regions; traveling wave antenna design; antenna theorems; mathematical and numerical techniques.

490Q Advanced Polyphase Machines (3)

Prereq: 331. (spring) Generalized machine theory, transient behavior of polyphase synchronous and induction machines.

490T Distributed Circuits (2)

Prereq: 212. Basic equations, propagation of DC transients and pulses on lossless transmission lines, steady-state waves on lossless and lossy lines, Smith chart for impedance and admittance, impedance matching.

490U Small Microprocessor Systems (3)

Prereq: 407. (spring) Introduction to microprocessor capabilities and limitations. Timing considerations, essential storage, interfacing to controlled plant. Examples of microprocessor control of small plants.

490W Mini- and Microcomputers I (3)

Prereq: perm. (fall) Organization of several minicomputer and microcomputer systems. Theory and application of assemblers, loaders, etc. Numerical control and data acquisition problems programmed in assembly language on existing computers. Applications in wide range of areas studied.

490X Mini- and Microcomputers II (3)

Prereq: 490W. (winter) Continuation of 490W.

490Y Digital Processing of Signals (3)

Prereq: 312. (on demand) Digital techniques for various signal-processing applications. Emphasis on design and realization of digital algorithms for performing specific filtering function. Topics include sampled-data signals, discrete-time system analysis, frequency response and realization of discrete-time systems, infinite impulse response digital filter design, finite impulse digital filter design, discrete and fast Fourier transforms.

490Z PCM Telemetry Systems (3)

Prereq: 471 or perm. (on demand) In-depth study of pulse code modulation systems using total system error (sampling error, quantization error, and channel error). Uniform and nonuniform quantization; companding μ - and A-law; optimum quantization, coding, DPCM (differential pulse code modulations), LDM (linear delta modulation), ADM (adaptive delta modulation). Comparison of systems and trade-off analysis.

ENGINEERING GRAPHICS

See Industrial Technology

ENGINEERING, INDUSTRIAL AND SYSTEMS

231 Introduction to Industrial and Systems Engineering (2)

Prereq: Math 263A. (fall) Overview of history and functions of industrial and systems engineering. Topics discussed include historical perspective, production engineering, plant location, plant layout, work measurement and design, job evaluation, production control, quality control, engineering economy, linear programming, and project management. 2 lec.

300 Principles of Industrial Engineering (3)

Prereq: perm. (fall) Survey course covering traditional industrial engineering concepts and practices such as engineering economy, plant location, plant layout, work methods, work measurement, production control systems (including CPM and PERT), inventory control, and quality control. Not for ISE undergraduate majors. 3 lec.

304 Applied Engineering Statistics (3)

Prereq: Math 163B or Math 263B or perm. Introduction to efficient methods for data collection and analysis. Application of basic statistical tests, techniques and experimental design concepts to engineering and science data problem areas. 3 lec.

305 Engineering Statistics I (3)

Prereq: Math 263C or perm. Introduction to applied probability and statistics. Evaluation of experimental data, testing hypotheses, confidence levels, and statistical prediction. 3 lec.

306 Engineering Statistics II (3)

Prereq: 305 or perm. Continuation of 305. 3 lec.

330 Engineering Economy (3)

Comparing alternatives for acquisition of capital assets, expenditure of operating monies, and income generation. Topics include equivalence, annual cost

method, present worth method, rate of return method, depreciation, benefit/cost, breakeven analysis, income taxes, equipment replacement, and risk. 3 lec.

333 Work Design (5)

Prereq: 304 or 305 or perm. (fall) Design of work systems and measurement of work. Topics include job methods, operation analysis, charting techniques and schematic models, stop-watch time study, work sampling, predetermined time systems, standard data, incentive wage systems, learning curves. 3 lec, 2 lab.

336 Project Management (3)

Development and utilization of network techniques, such as PERT and CPM, to schedule activities, develop financial budgets, allocate resources, and control progress and costs of practical projects. Students will be introduced to use of available computer programs that generate project schedules. 3 lec.

381 Internship in Industrial and Systems Engineering (1-3)

Prereq: perm. Supervised work-study program, in industrial and systems engineering profession, in established industrial or government environment. Credit dependent upon advanced registration and mutual agreement between faculty supervisor and participating company. Course may be repeated; however, hours applied for graduation limited by department.

407 Design and Analysis of Experiments (3)

Prereq: 304 or 305 or equiv, or perm. (spring) Design and analysis of engineering experiments approached from linear statistical model point of view. Blocking designs, full and fractional factorial designs, analysis of variance, and introduction to response surface methodology. 3 lec.

410 Decision Theory I (3)

Prereq: 304 or 305 or perm. Introduction to decision theory, utility theory, and applications. Decision making under risk. Inventory, bidding, purchasing, maintenance, and investment applications. 3 lec.

411 Decision Theory II (3)

Prereq: 304 or 305 or perm. Bayesian decision theory and applications covering both profit and nonprofit institutions. 3 lec.

415 Introduction to Systems Engineering (3)

Prereq: 305 or equiv, FORTRAN. Introduction to systems engineering concepts. Systems structure, open-loop and closed-loop systems, positive and negative feedback. Applications to production and inventory systems, population, and physical systems. Design project required. 3 lec.

417 Analytical Foundations of Industrial and Systems Engineering (3)

Prereq: 305, Math 263C, or perm. (fall) Special analytical techniques introduced for solution of complex industrial and system engineering problems. Calculus of finite differences, Fourier analysis, and use of transform techniques in linear system analysis discussed. Probability implications of transforms emphasized.

422 Seminar on Occupational Safety and Health (3)

Prereq: perm. Historical development of workman's compensation and industrial health and safety; review of federal activities in occupational health and safety with focus on contemporary public policy issues. Specific occupational health and safety issues are dealt with in seminar format.

423 Seminar on Transportation Systems (4)

Prereq: 305. Transportation systems analysis design, and related topics. Emphasis on industrial and systems engineering approaches to analysis and synthesis. Topic concentration varies from qtr to qtr.

424 Nonlinear Analytical Techniques (3)

Prereq: perm. Nonlinear phenomena and classification of singularities. Role of forcing function. Solutions found through methods of residues and variation of parameters. Applications to adaptive controlled systems and optimal controlled systems and other organized structures. 3 lec.

425 Statistical Design and Analysis of Controlled Systems (4)

Prereq: 305 or equiv or perm. Applied statistical techniques in selective design and evaluation of controlled systems. Tolerances, errors, and variations in parameters of systems viewed in terms of probabilistic distributions and effects on output parameters. Value standards such as reliability and maintainability of equipment and man-machine systems treated.

427 Digital Computer Systems I (3)

Prereq: COBOL or FORTRAN. (fall) Overview of digital computer systems. Programming, storage organization, and search. Number representations, conversions, and elementary arithmetic operations. Addressing and instruction sequencing. Multiprogramming, multiprocessing, and real-time systems.

428 Digital Computer Systems II (3)

Prereq: COBOL or FORTRAN or perm. (winter) Continuation of 427. See 427 for description.

432 Inventory and Manufacturing Control I (3)

Prereq: 305 or with 305. (fall) Design of inventory and manufacturing control systems. Forecasting, continuous and periodic review inventory systems. Relationship between production schedules and inventory. Production scheduling systems; sequencing models; dispatching rules. 3 lec.

433 Industrial Computer Applications (5)

Prereq: 304 or 305, FORTRAN or perm. (winter) Simulation of industrial problems utilizing digital computers. Stresses user-oriented programs. Applications include use of library routines and simulation languages such as CSMP and GPSS. Projects involving design of simulation programs required.

434 Network Analysis (3)

Prereq: 305 or with 305. (fall) Engineering project planning using such techniques as PERT and critical path method, flow graphs, GERT, and other network models. 3 lec.

435 Quality Control and Reliability (3)

Prereq: 304 or 305 or perm. (winter) Application of statistics to control of quality and reliability in products and services. Design of acceptance sampling and process control systems, including attention to inspection and test methods. Design and implementation of quality assurance programs, including nonstatistical dimension, also treated. 3 lec.

439 Information Systems Engineering (3)

Prereq: FORTRAN. Design of industrial information systems including automatic storage, retrieval, and transmission of data.

440A Industrial Plant Design I (2)

Prereq: 333, 445A or perm. (winter) Introduction to 2-qtrs project in which students design a manufactur-

ing facility. 1st qtr topics include product determination, plant location, analysis of drawings, estimation of production time for each operation and production scheduling and inventory control.

440B Industrial Plant Design II (3)

Prereq: 440A. (spring) Continuation of 440A with emphasis on selection of equipment, incentive wage system, quality control system, project management, and layout of facility using both computer and conventional techniques.

441 Introduction to Operations Research (3)

Prereq: 305 or perm. (fall) Basic methodology of operations research. Applications and mathematical structure of linear models, linear and dynamic programming, queueing theory, and other modeling techniques. 3 lec.

442 Inventory and Manufacturing Control II (3)

Prereq: 305 or perm. (winter) Branch and bound scheduling algorithms, horizon planning, control of integrated production, inventory and workforce systems, linear decision rules. 3 lec.

443 Work Design in a Technological Society (3)

Prereq: perm. (spring) Exploration of interaction between industrial and systems engineering and labor as an institution. Arbitration, technological change, and work organization. 3 lec.

444 Fundamentals of Mathematical Programming (3)

Prereq: Math 211 or perm. (winter, summer) Linear programming theory and practice. Topics include simplex method, 2-phase method, dual problem, and sensitivity analysis. 3 lec.

445A Systems Design I (3)

Prereq: perm. Design methodology and principles. Identification and definition of design project.

445B Systems Design II (3)

Prereq: 445A. Individual or small-group system design project continued from 445A.

448 Human-Machine Systems (3)

Prereq: 304 or 305 or perm. (spring) Role of operator as subsystem in human-machine systems. Design principles for information displays, equipment controls, workplace environments, and life support systems. Design project required. 3 lec.

451 Human-Machine Systems Engineering Design (3)

Prereq: sr rank or perm. Effects of physical environmental stressors on human in man-machine systems examined and appropriate counter measures designed. Stressors include heat, cold, noise, vibration, lighting, radiation. Design project required.

489 Special Investigations (1-6)

Prereq: perm.

490 Advanced Problems in Computer Applications (1-6)

Prereq: perm. Special investigations of advanced industrial and systems engineering problems involving use of digital or analog computers.

ENGINEERING, MECHANICAL

301 Dynamics of Machinery (5)

Prereq: grade of C or better in CE 321. (fall) Analytical and graphical solutions of motion problems involving mechanical elements: linkages, gears, cams and mechanical trains, etc. Static and inertia forces, friction, energy storage, and balancing in machines and mechanisms.

313 Metal Processing (3)

Prereq: CE 220. (winter) Structure of metals, mechanics of metal forming and metal cutting. Analysis of forces, energy requirements, and temperature effects. Interrelationship between metal processing and mechanical properties.

321 Introduction to Thermodynamics (4)

Prereq: Phys 251, Math 263 A, B, C. Basic engineering thermodynamics. Definitions, first law, properties and property relations, second law, availability, applications to engineering problems.

322 Introduction to Thermodynamics Lab (2)

Prereq: grade of C or better in 321 or with 321. (fall, winter) Instruments and measurements, applications to simple thermal machines. Comparison of measurements with theory, elementary computer simulations. Report writing. Two 2-hr sessions per wk.

328 Applied Thermodynamics (5)

Prereq: grade of C or better in 321. (spring) Non-reactive and reactive mixtures, compressors, analytical studies of gas and vapor power cycles, and refrigeration. 5 lec.

381 Internship in Mechanical Engineering (1-3)

Prereq: jr level and perm. Supervised work-study program, in the mechanical engineering profession, in an established industrial environment. Credit dependent on advanced registration and a mutual agreement between faculty supervisor and the participating company. Course may be repeated; however, the hours applied for graduation are limited to a maximum of six (6). Also listed as 481.

400 Heating, Ventilation, and Air Conditioning (3)

Prereq: jr rank. (spring) Description and evaluation of heating, air conditioning, and total-energy systems employed to provide thermal environments for buildings ranging in scope from residences to integrated commercial, apartment, or industrial complexes. Covers human comfort, psychrometrics, load analysis, techniques, equipment, and controls.

401 System Analysis and Control (4)

Prereq: Math 340. (fall) Modeling and formulations of various physical systems, including mechanical, electrical, and fluid systems. Transient and steady-state dynamic responses, stability of systems, and other fundamental theory of automatic controls and applications.

402 Fluid Mechanisms and Controls (3)

Prereq: perm. (on demand) Fluid mechanics associated with fluid control, survey of flow control devices, fluid amplifier principles, digital logic, analysis, and synthesis of fluid control systems.

403 Machine Design I (4)

Prereq: 313, ChE 331, 418, CE 222, 223. (spring) Applications of mechanics, mechanisms, materials,

and mechanical processes to design and selection of machine members and units of power transmission.

404 Machine Design II (4)

Prereq: 403. (winter) Morphology of engineering design. Applications of statistics and probability and techniques of optimization to design. Team design project.

407 Fundamentals of Nuclear Engineering (4)

Prereq: perm. (winter) Nuclear engineering, including nuclear reactions, radiation detection and measurement, reactor criticality, principles of reactor control, radiation shielding, effects of radiation on materials, uses of radioactive materials.

411 Cryogenic and Vacuum Fundamentals (4)

Prereq: 321, 412. (arranged) Production of low temperatures and pressures, molecular transport, diffusion through solids, radiation heat transfer, high-performance insulators, low-temperature heat transfer, 2-phase flow, superconductivity.

412 Heat Transfer (5)

Prereq: grade of C or better in ME 321, CE 340. (spring) Basic concepts of conduction in 1 or more dimensions, steady and transient modes. Radiation, fundamentals of convection in various modes, heat exchanger design. 5 lec.

413 Conduction and Radiation Heat Transfer (4)

Prereq: perm. Advanced analytical treatment of conduction and radiation heat transfer. Boundary value problems, orthogonal expansions, moving heat sources, multi-dimensional problems with time varying boundary conditions, finite difference analysis, conformal transformations, radiation network matrix analysis, diffuse-specular exchange. Monte Carlo techniques, etc.

417 Design of Thermal Systems (4)

Prereq: 321, 328, 412. (fall) Design of systems in which thermodynamics, transport behavior, and optimization techniques are major considerations. Emphasis on total design approach including factors such as cost and reliability. Typical systems include power, propulsion, environmental, cryogenic. Design project and report required.

418 Mechanical Engineering Experimentation (1)

Prereq: ME sr or grad rank. (fall) Instruction in experimental procedure and experience in designing and executing lab experiments. Students plan and execute their own experiments to acquire answers to assigned problems. Variety of areas covered including control systems, energy conversion, fluid flow, heat transfer, motion measurements, stress-strain. Instructional guidance provided by entire mechanical engineering staff. Provides familiarity with variety of instrumentation and procedures. 3-qtr sequence with experimental subjects phased with prerequisites.

419 Mechanical Engineering Experimentation (1)

Prereq: ME sr or grad rank. (winter) Continuation of 418. See 418 for description.

420 Mechanical Engineering Experimentation (1)

Prereq: ME sr or grad rank. (spring) Continuation of 419. See 418 for description.

424 Gas Dynamics I (3)

Prereq: CE 340 or perm. (winter) 1- and 2-dimensional compressible flow-isentropic flow, flow with heat transfer, friction, shocks, generalized 1-dimensional flow. Applications to propulsion systems. 3 lec.

425 Vehicle Propulsion Systems (4)

Prereq: 424. Applications of basic engineering disciplines to design and analysis of vehicle propulsion systems. Extensive use of digital computers. Term report required.

427 Power Station Engineering (3)

Prereq: 321. (winter) Fuels, principles of combustion, stationary boilers, grates, stokers, furnaces, coal pulverizers, economizers, preheaters, superheaters, stacks, forced and induced draft, boiler-feed pumps, heat balances, and hydro power. 3 lec.

430 Applied Thermodynamics Lab (3)

Prereq: 322, 328. (fall, spring) Sr lab course involving more complex experiments on steam turbines, boilers, combustion, pumps, air compressors, heat transfer, and refrigeration. Three 2-hr sessions per wk.

440 Direct Energy Conversion (4)

Prereq: perm. (on demand) General principles of unconventional energy conversion. Thermoelectricity, thermionics, MHD, fuel cells, photo voltaics, wind systems, solar systems and energy storage.

480 Colloquium (I)

Prereq: sr rank. Open presentation of individual engineering analysis or design effort. Requires demonstration of individual analytical or design ability and satisfactory oral presentation techniques.

481 Internship in Mechanical Engineering (I-3)

Same as 381. See 381 for description.

484 Projects in Thermal Machinery (3)

Prereq: perm, good academic record. (fall) Research in thermal machines. Individual work on experimental or analytical project involving current problems. Training in use of library, theory and use of instruments, error analysis, planning of experiments, effective report writing. Students should elect 2-term sequence to allow adequate time for completion of meaningful project. Report required.

485 Projects in Thermal Machinery (3)

Prereq: perm, good academic record. (winter) Continuation of 484. See 484 for description.

486 Projects in Thermal Machinery (3)

Prereq: perm, good academic record. (spring) Continuation of 484-485. See 484 for description.

489 Special Investigations (I-6)

Prereq: perm.

491 Mechanical Vibrations I (3)

Prereq: Math 340, grade of C or better in CE 321, srs, grad. (fall) Characteristic phenomena of mechanical vibrations encountered in machines and structures (of 1-degree of freedom) and their quantitative investigation. Simple harmonic motion; free, transient, and forced vibrations; damping effects.

492 Mechanical Vibrations II (4)

Prereq: 491. (winter) Application of matrix methods; 2-degree of freedom systems; lumped mass systems with several degrees of freedom, and methods for normal mode determination. 4 lec.

493 Lubrication and Bearing Analysis (3)

Prereq: perm. (spring) Concepts of boundary, hydrostatic, and hydrodynamic lubrication. McKee, and Boyd and Raimondi methods. Solid lubrication, porous bearings, gas bearings.

494 Advanced Machine Design (3)

Prereq: perm. (spring) Advanced considerations in design and analysis of machine members, strength under combined stress, thermal stress, fatigue in metals, plastic behavior of metals. 3 lec.

495 Introduction to Kinetic Theory and Statistical Thermodynamics (4)

Prereq: perm. (arranged) Kinetic theory, classical and quantum statistical mechanics with applications to engineering devices. 3 lec.

496 Experimental Methods in Design (3)

Prereq: 403, perm. Investigation and evaluation of experimental methods that may be used to obtain design and performance data. Techniques of photoelasticity, strain measurements, and vibration measurement.

497 Methods of Engineering Analysis I (4)

Prereq: Math 340 or perm. (fall) Methods of analyzing equilibrium and eigenvalue problems in mechanical engineering and engineering mechanics; matrix methods, variational methods, numerical methods.

ENGLISH

ENGLISH LANGUAGE AND LITERATURE

HUMANITIES

The major requirement for the AB degree consists of at least the following 42 hours above 199: a) 200, b) 312 and 313 and 314, c) 301 or 302 or 303, d) 307 or 351 or 352, e) 321 or 322, f) 360 or 361 or 362, and g) 460. Completion of these courses automatically completes the College of Arts and Sciences requirement of nine hours in the major at the junior-senior level.

An intensive, two-year major program by tutorial instruction is offered by the English Department, beginning each fall term. Information is available from the chairman.

Students wishing to major in creative writing will take 20 hours of creative writing, 15 of which will be in addition to the requirements for an English major, and five of which will be 453 instead of 460. At the discretion of the director, a student may substitute five hours of 308, Advanced Composition, for five hours of creative writing.

English majors are not permitted to apply courses taken on a pass-fail basis to the major requirements.

Honors work in English: see "Departmental Honors" under Honors Tutorial College. For general English requirements, see the College of Arts and Sciences section of this catalog.

ENGLISH LANGUAGE AND LITERATURE

150 Fundamental Usage Skills (4)

Prereq: placement or recommendation. Intensive, voluntary, fundamental program in writing for students with unusually weak training in standard punctuation, grammar, sentence formation, usage, and paragraphing skills. Attention to agreement, frag-

ments, pronoun reference, modifiers, tense forms, subordination, etc. Combines small class instruction and writing laboratory work. Prepares for 172. (Does not count toward Arts and Sciences humanities area req.) (Nonnative speakers of English take 150F.) (Credit for Eng 150 will not be given to a student who has already passed any higher-level English course.)

160 English for Foreign Students (5)

Prereq: nonnative speakers of English only, perm of OPIE. Principles and practice of close reading and writing of non-literary prose. Reading practice focuses on developing skill in recognition of features of form and style characteristic of written expository English necessary for satisfactory comprehension. Writing practice is limited to expository prose, with emphasis on principles of organization, methods of development of ideas, and expression in acceptable English idiom.

171 Topics in Literature (5)

Prereq: fr and soph only. Group of courses similar in structure and purpose but different in topic. Reading literature and writing essays. Students receive practice and instruction in writing coherent, intelligent, persuasive prose and are evaluated primarily by that means. As preparation for the several (at least 5) short papers required, students will read fiction, poetry, and sometimes drama (mostly 20th century) chosen for relevance to topic of course and then discuss their understanding of issues and worlds presented. Those with major writing deficiencies should take 150 (see description). Separate topics offered:

- 171A: Literature of Initiation
- 171B: Afro-American Experiences in Literature
- 171D: Man and Woman: Images in Literature
- 171F: Literature of Vision and Fantasy
- 171H: The Comic Mode in Literature
- 171J: Contemporary Literature

Specific course descriptions with text lists are advertised quarterly in Ellis Hall.

172 Contemporary Writing Skills (5)

Prereq: fr and soph only. Rhetorical strategies and stylistic patterns of expository prose. Through example and frequent practice, reviews control of grammar and usage and sharpens attention to audience, selection and organization of material, generalization and evidence, coherence, emphasis, word choice, etc. Students requiring intensive instruction and practice in the most common conventions of grammar and usage should take 150. (Nonnative speakers of English take 172F.)

173S Special Topics in Literature (5)

Prereq: fr and soph only. (Offered quarterly) Similar in structure and purpose to 171, but each section—topic and texts—is designed by person who teaches it. Specific topics advertised at preregistration.

175S Contemporary Issues: Special Topics (5)

Prereq: fr and soph only. (Offered rarely) Similar in structure and purpose to 171, but each section—topic and texts—is designed by person who teaches it.

200 Introduction to Literature (4)

Prereq: 5 hrs above 100. Approaches to reading and interpretation of literature, emphasizing skills, techniques, and language of interpretation.

201 Interpretation of Fiction (5)

Prereq: 5 hrs above 100. Forms and techniques of the art of fiction.

202 Interpretation of Poetry (5)

Prereq: 5 hrs above 100. Intensive reading of selected poems from all periods of English and American literature and study of forms and techniques.

203 Interpretation of Drama (5)

Prereq: 5 hrs above 100. Analysis of dramatic forms.

204 Introduction to International Literature I: The Classical Tradition (5)

Prereq: 5 hrs above 199. Selected classical texts, sometimes alone and sometimes in conjunction with modern texts, for purpose of defining classical sensibility in western literature.

205 Introduction to International Literature II: Romantic Tradition (5)

Prereq: 5 hrs above 199. Will deal with esthetic and philosophical concepts that have formed Romantic Tradition in western literature. Concentration on works by German, English, and French writers.

206 Introduction to International Literature III: The Modern Tradition (5)

Prereq: 5 hrs above 199. Selected literary works which provide background for and express modern sensibility in western literature.

210 Critical Approaches to Popular Literature (4)

Prereq: 5 hrs above 100. Introduction to techniques of literature and literary criticism using books from that area where serious literature and popular literature meet.

270 Special Studies: Individual or Comparative Authors (2-3)

Prereq: 5 hrs of English. Intensive focus, short-term course (5 wks) in individual or comparative authors: 270A Medieval, B Renaissance, C Restoration and 18th Cent., D 19th Cent. American, E 19th Cent. British, F 20th Cent. American, G 20th Cent. British, H Continental.

271 Special Studies: Selected Themes or Topics in Literature (2-3)

Prereq: 5 hrs of English. Intensive focus, short-term course (5 wks) in selected themes or topics: 271A Poetry, B Fiction, C Drama, D Comparative Genres, E Language, F Stylistics and Rhetoric, G Literature and Film, H Criticism.

280 Expository Writing and the Research Paper (4)

Prereq: 5 hrs above 100. Intermediate-level writing course offering practice in library research, techniques of documentation, and writing the research paper.

301 Shakespeare, The Histories (5)

Prereq: 5 hrs above 199. History plays.

301A Shakespeare, Selected Plays and Poems (3)

Prereq: 5 hrs above 199. Selected tragedies, histories, and comedies with related poems. Examination of themes, characters, and language. Recommended for nonmajors. Not duplicated by 301.

302 Shakespeare, The Comedies (5)

Prereq: 5 hrs above 199. Comedies.

302A Shakespeare: Selected Plays and Poems (3)

Prereq: 5 hrs above 199. Continuation of 301A. See 301A for description. Not duplicated by 302.

303 Shakespeare, The Tragedies (5)

Prereq: 5 hrs above 199. Principal tragedies.

303A Shakespeare: Selected Plays and Poems (3)

Prereq: 5 hrs above 199. Continuation of 301A and 302A. See 301A for description. Not duplicated by 303.

304 English Bible (5)

Prereq: 5 hrs above 100. Selected prose and poetry of Old and New Testaments.

305 Technical Writing (4)

Prereq: 5 hrs above 100. Focuses on writing of clear and concise proposals, feasibility reports, progress reports, and descriptions of mechanisms and technical processes.

306A Studies in Oriental Literature (5)

(fall) Introduction to cultural background of Oriental literature.

306B Studies in Oriental Literature (5)

Prereq: 306A. (winter) Continuation of 306A. Study of classical Oriental literature.

306C Studies in Oriental Literature (5)

Prereq: 306B. (spring) Continuation of 306A-B. Study of modern Oriental literature.

307 The Structure of American English (5)

Prereq: 10 hrs above 199. Study of a grammar of English using a linguistic model chosen from contemporary linguistic theories. Course inevitably has a dual focus: on facts of English usage and on theories linguists have created to organize and explain them. Instructor may wish to present a complete grammar (phonology, morphology, syntax) or a portion of one (*e.g.*, syntax), or compare several grammars. Phonetics may be taught.

308 Advanced Composition (5)

Prereq: jr rank. Aim: to increase skills and expertise in writing of discursive prose. Method: regular practice and evaluation, supplemented by attention to professional prose and concepts in rhetoric and style.

309 Creative Writing (5)

Beginning course in creative writing. Will concentrate on processes of invention as they lead to works of fiction and poetry. Student manuscripts criticized; creative literary works of recognized importance analyzed; act of writing a continuing practice. A. Poetry; B. Fiction.

310 McGuffey Lectureship in Literature (1-5)

Prereq: 5 hrs. Special series of lectures offered by current McGuffey Visiting Professor of English. Subject announced each qtr. Number of lectures offered determines credit hrs assigned.

312 Medieval and Renaissance English Literature (5)

Prereq: 10 hrs above 199. Major works, writers, and genres of Medieval and Renaissance periods, excluding Shakespeare.

313 Restoration and Neoclassical English Literature (5)

Prereq: 10 hrs above 199. Major works, writers, and genres of Restoration and Neoclassical period.

314 Romantic and Victorian Literature (5)

Prereq: 10 hrs above 199. Major works, writers, and genres of 19th century.

315 American Literature (3)

Prereq: 5 hrs of English or jr rank. Major and minor authors, themes, genres, etc., usually in 19th and 20th century American literature.

316 English and Continental Literature (3)

Prereq: 5 hrs of English or jr rank. Major and minor authors, themes, genres, etc. in English and European literature.

317A American Literature by Black Authors (5)

Prereq: 5 hrs of English or jr rank. Body of literature being written by black authors in America and attempts to assess quality and significance of this cultural contribution. (A) Emphasizes background materials, fiction, and autobiography of 19th and 20th centuries; (B) emphasizes poetry, but includes further reading in recent fiction and nonfiction prose; (C) emphasizes drama, continues study of new trends in poetry.

317B American Literature by Black Authors (5)

Prereq: 5 hrs of English or jr rank. Continuation of 317A. See 317A for description.

317C American Literature by Black Authors (5)

Prereq: 5 hrs of English or jr rank. Continuation of 317A, B. See 317A for description.

321 American Literature to the Civil War (5)

Prereq: 10 hrs above 199. Major works, writers, and genres of American literature before the Civil War.

322 American Literature Since the Civil War (5)

Prereq: 10 hrs above 199. Major works, writers, and genres of American literature since the Civil War.

331 20th Century British and American Literature (5)

Prereq: 10 hrs above 199. Some major works, writers, and genres of British and American literature in this century.

335 The Ohio University Writers (4)

Features personal visits to classroom by writers, to discuss their work with students, to answer questions from class, and to read from new work or work in progress.

345 Readings in Children's Literature (4)

Prereq: 5 hrs above 199. Readings in classic and contemporary children's literature, together with consideration of historical development of children's literature, philosophical and esthetic bases, criteria of great children's literature.

350 Traditional Grammar, Mechanics, and Usage (3)

Prereq: 5 hrs above 100 or perm. Concentrates upon grammatical understanding and awareness of relationships in sentence structure, including an understanding of incidental usage and punctuation.

351 The History of the English Language (5)

Prereq: 10 hrs above 199. English, like every language, has been and is at present in a state of evolution. Course examines various kinds of changes to which it is subject: in sound patterns and in grammatical forms, in vocabulary and its semantic values. Shows origin and fate of various literary and social norms of various periods of the language, and gives some attention to dialects.

352 The Development of American English (5)

Prereq: 10 hrs above 199. History of English language in America; topics covered are comparison of British and American English, phonetic transcription, sources of American English in 17th-century British dialects, development of major regional dialects on east coast and their movement westward, archaic speech of Appalachia and other relic areas, black English, Noah Webster's spelling book and

dictionaries, background of controversy over correctness in America.

360 Major English Authors (4)

Prereq: jr or sr rank or perm. Studies 1 or 2 British authors with view to providing extensive knowledge of writer's or writers' esthetic tactics, themes, or career developments. Writers to be studied named in subtitle.

361 Major American Authors (4)

Prereq: jr or sr rank or perm. Studies 1 or 2 American authors with view to providing extensive knowledge of writer's or writers' esthetic tactics, themes, or career developments. Writers to be studied named in subtitle.

362 Major International Authors (4)

Prereq: jr or sr rank and perm. Studies 1 non-English speaking writer, or two writers, one or both of whose native language is not English. Seeks to provide extensive knowledge of writer's or writers' esthetic tactics, themes, or career developments. Writers to be studied named in subtitle.

393 Creative Writing Workshop: Short Story (5)

Prereq: 309 and perm. Instruction and practice in writing of fiction, concentrating on development of narrative techniques, character building in stories, staging scenes in a narrative, etc.

394 Creative Writing Workshop: Nonfiction (5)

Prereq: 309 and perm. Will concentrate on writing nonfiction, and will explore general techniques of prose as they apply to fictionalized biography and the literary essay and as they are used to dramatize effectively works that are generally considered nonfiction.

395 Creative Writing Workshop: Poetry (5)

Prereq: 309 and perm. Experience and language of poetry, and emphasis upon practice of writing poetry.

450A Teaching Language and Composition (3)

Prereq: sr rank. Content and methods of presentation for teaching language and composition in high school. Not applicable to Arts and Sciences 200-level requirement.

450B Teaching Literature (3)

Prereq: sr rank. Content and methods of presentation for teaching literature in high school. Not applicable to Arts and Sciences 200-level requirement.

451 Studies in Criticism (5)

Prereq: 20 hrs above 100 and sr rank or perm. Some aspect of history and of problems in critical theory and its application.

453 Form and Theory of Literary Genres (5)

Prereq: 10 hrs of creative writing. Intensive study of serious fiction or poetry or drama (in alternate offerings as needed) with emphasis on problems writer faces in literary composition.

455 English Education Workshop (1-5)

Prereq: teaching certificate or equiv or perm of instructor. Studies in principles, problems, approaches, and issues in teaching of English from elementary school to post-secondary. Topics determined according to need and demand.

457 Readings in English Education (5)

Prereq: jr rank. Recent developments and writings in English education and their possible application to the teaching of jr and sr high school English.

460 Literary Genres (4)

Prereq: jr or sr rank or perm. Intensive study of selected literary genre in selected period. Genre and period indicated in subtitle.

461 Colloquium (5)

Prereq: sr rank. (fall) Specific interdisciplinary problems to be assigned each qtr.

462 Colloquium (5)

Prereq: sr rank. (winter)

463 Colloquium (5)

Prereq: sr rank. (spring)

470 Special Studies (5)

Prereq: sr rank. Selected literary topics and studies.

490 Independent Reading (1-15)

Prereq: perm. Directed individual reading and research.

496 Advanced Workshop in Creative Writing (5)

Prereq: 10 hrs of creative writing and perm. Limited to 6 students, will consist largely of independent work in a particular literary genre. Students will meet together or individually with instructor, according to needs of particular work of that qtr.

H499 Honors Project (5-15)

Prereq: perm. Completion of individual writing project for BA with honors in English.

HUMANITIES

107 Humanities — Great Books (3)

Prereq: fr and soph only. (fall) Classics of western civilization leading toward an understanding of cultural heritage. Guidance in critical thinking, reading, and writing about those works.

108 Humanities — Great Books (3)

Prereq: fr and soph only. (winter) Continuation of 107. See 107 for description.

109 Humanities — Great Books (3)

Prereq: fr and soph only. (spring) Continuation of 107, 108. See 107 for description.

307 Humanities — Great Books (3)

Prereq: jr and sr only. (fall) Classics of western civilization, leading toward an understanding of cultural heritage. Guidance in critical thinking, reading, and writing about those works.

308 Humanities — Great Books (3)

Prereq: jr and sr only. (winter) Continuation of 307. See 307 for description.

309 Humanities — Great Books (3)

Prereq: jr and sr only. (spring) Continuation of 307, 308. See 307 for description.

FILM

201 Introduction to Film I (4)

(fall) Examination of basic motion picture structure and esthetics; study of narrative modes. Wkly screenings.

202 Introduction to Film II (4)

Prereq: 201 or perm. (winter) Selected topics in narrative motion picture with emphasis on contemporary filmmakers. Wkly screenings.

203 Introduction to Film III (4)

Prereq: 201 or perm. (spring) Selected topics in experimental and documentary film modes with emphasis upon contemporary trends in medium. Wkly screenings.

340 Film Techniques (3)

Prereq: 201 or perm. Basic 8mm production techniques; organized as a beginning filmmaking workshop.

341 Advanced Super-8 (4)

Prereq: 340 or perm. Workshop in Super-8mm production for students working on independent film projects. Students should have their own cameras.

361 Motion Picture Production I (5)

Prereq: 340 or perm. (fall) Professional workshop in 16mm techniques; elementary film structuring; camera and lighting; editing; sound recording; laboratory preparation. Intensive exercise as individual filmmaker. Limited enrollment; admission by perm only.

362 Motion Picture Production II (5)

Prereq: 361. (winter) Continuation of 361. Admission by perm only.

363 Motion Picture Production III (5)

Prereq: 361. (spring) Continuation of 362. Admission by perm only.

369 Survey of Film Animation (4)

(Summer) General survey of film animation; history and technique. Wkly screenings.

451 Film Theory and Criticism I (4)

Prereq: 201 or perm. (fall) Study of development of film theory with emphasis upon current trends in analysis of film structure. Wkly screenings.

452 Film Theory and Criticism II (4)

Prereq: 451 or perm. (winter) Continuation of 451.

453 Film Theory and Criticism III (4)

Prereq: 452 or perm. (spring) Continuation of 452.

471 Film Topics Seminar (1-5)

Prereq: perm. (fall) Investigation of selected motion picture topic announced in advance of registration. Orientation may be either scholarly-critical or production workshop. Topics and credit hours vary qtr to qtr.

472 Film Topics Seminar (1-5)

Prereq: perm. (winter) See 471 for description.

473 Film Topics Seminar (1-5)

Prereq: perm. (spring) See 471 for description.

480 Individual Production Problems (1-5)

Prereq: perm. Production of a motion picture. May be repeated.

481 Individual Readings (1-5)

Prereq: perm. Readings and reports on works related to motion pictures. Reading list selected by student in consultation with faculty member. May be repeated.

482 Independent Study (1-15)

Prereq: perm. Advanced individual creative or scholarly work in film. May be repeated. Max. 45 hrs.

FINANCE

The finance major prepares professionals who are concerned with the development and utilization of funds for economic and social purposes.

Coursework is available in the fields of financial management, commercial banking, financial institutions, security markets, and risk and insurance.

In addition to the BBA degree requirements, a student majoring in finance must complete 24 hours of finance courses at the 300- or 400-level including 327.

102 Personal Money Management (4)

Prereq: not open to jrs and srs. How to live better financially. Relation of personal goals to money management in terms of expenditures, savings, and tax considerations. Financial media that serve the individual such as life insurance, savings, securities, and consumer and mortgage credit.

325 Managerial Finance (4)

Prereq: Acct 102 and jr rank (3rd qtr soph if finance major) or minor in business administration. Role of financial management in business enterprise; financial analysis; planning needs for short-term and long-term funds; planning for profits; capital budgeting; internal management of working capital and income; raising funds to finance growth of business enterprises.

327 Banking and the Financial System (4)

Prereq: Econ 101 or 301; and jr rank. Functioning of commercial banking system and other financial institutions. Flow of funds and interest-price movements in money and capital markets. Supply of loanable funds and demand for funds in mortgage loan market, consumer credit market, corporate securities markets, and markets for government securities and municipal obligations. Consideration of effects on financial markets of Federal Reserve and Treasury policies.

331 Risk and Insurance (4)

Prereq: jr rank. Social importance of risk and its place in personal, business, and national life, including principles and methods of handling risk. Special interest in technique of insurance.

341 Investments (4)

Prereq: 325. Principles in determination of investment media for individual and institutional portfolios. Sources of investment information; analysis of financial statements; investment risks and yields. Securities markets and their behavior.

428 Management of Financial Institutions (4)

Prereq: 327 or perm. Analysis of objectives, functions, practices, and problems of financial institutions as viewed by management of these institutions.

432 Property and Casualty Insurance (4)

Prereq: 331. Analysis of principal types of property and casualty insurance policies with respect to protection afforded policyholder, his or her obligations, and cost of protection. Policies studied include fire and extended coverage, allied lines, business interruption, inland marine, automobile, general liability, theft, and bonds. Subjects of risk, insurance law and multiple-peril policies also covered.

436 Life Insurance (4)

Prereq: 331. Fundamental economics of life insurance. Principles and practices of life insurance including types of contracts, group and industrial insurance, and annuities.

442 Security Analysis (4)

Prereq: 341. Problems of selecting securities for various investment purposes. Industry structure, volume-price-cost relationships, management, financial position, terms of securities contracts, and market price behavior studied to determine attractiveness of securities. Portfolio construction considered.

445 Portfolio Management (4)

Prereq: 341. Decision-making processes in management of individual and institutional securities portfolios. Theoretical foundations of portfolio selection and construction. Model-building and other criteria applicable to selection, risk-return tradeoffs, revision and evaluation of portfolio performance. Applications of computer technology and other quantitative techniques to different aspects of portfolio management.

453 Real Estate Finance (4)

Prereq: 325. Financial and investment analysis in purchase and sale of real properties, including single-family dwellings and income properties. Income and risk analysis in real estate investment. Instruments of real estate finance and institutional arrangements in mortgage markets. Government and mortgage markets. Flow of funds and credit conditions in mortgage markets.

455 International Finance (4)

Prereq: 325 or perm. Problems in international finance. Financing international trade and other transactions; foreign exchange market and exchange market and exchange rates; international payments system. Foreign central banking and current developments in international financial cooperation.

461 Problems in Business Finance (4)

Prereq: 325. Case study of financial management in business enterprises. Planning current and long-run financial needs, profit planning, allocation of funds, raising funds, dividend policies, expansion and combination, recapitalization and reorganization.

463 Capital Allocation (4)

Prereq: 325. Planning capital outlays. Methods for ranking investment proposals. Theories of financial structure and cost of capital. Approaches to investment decisions under conditions of uncertainty.

465 Mathematical Analysis of Financial Decisions (4)

Prereq: 325. Application of quantitative methods to financial management, with special emphasis on systems approach to evaluating proposed financial decisions.

491 Seminar (3, 4 or 5)

Prereq: perm. Selected topics of current interest in finance area.

497 Independent Research (1-15)

Prereq: perm. Research in selected fields of finance under direction of faculty member.

498 Internship (1-15)

Prereq: perm.

FOREIGN LANGUAGES AND LITERATURES

AFRICAN AND ASIAN LANGUAGES

(Department of Linguistics)

GERMANIC, ROMANCE, AND SLAVIC LANGUAGES

(Department of Modern Languages)

GREEK AND LATIN LANGUAGES

(Department of Classical Languages)

AFRICAN AND ASIAN LANGUAGES

(Department of Linguistics)

A major in African and Asian languages is not offered. An undergraduate seeking a certificate in African or Asian studies may choose three quarters of an appropriate African or Asian language as part of the course requirements.

African and Asian Literatures in English

Ohio University offers courses at both the undergraduate and graduate levels in the literatures of Africa and Asia. The Department of Linguistics teaches Southeast Asian literature and the Department of English teaches courses in African and Oriental literatures. Students wishing to fulfill requirements for the undergraduate certificate or the MA degree in either African or Southeast Asian studies should consult the departments concerned and the appropriate area studies director. (For description of the Southeast Asian literature courses see this page; for African and Oriental literatures, check page numbers in the index.)

Chinese (Asian)

111 Elementary Chinese (4)

(fall) Beginning course of a 3-qr 1st-yr sequence.

112 Elementary Chinese (4)

Prereq: 111 or equiv. (winter) Continuation of 111.

113 Elementary Chinese (4)

Prereq: 112 or equiv. (spring) Continuation of 112.

211 Intermediate Chinese (4)

Prereq: 113 or equiv. (fall) First course of a 3-qr intermediate-level sequence.

212 Intermediate Chinese (4)

Prereq: 211 or equiv. (winter) Continuation of 211.

213 Intermediate Chinese (4)

Prereq: 212 or equiv. (spring) Continuation of 212.

311 Advanced Chinese (4)

Prereq: 213 or equiv. (fall) Beginning of an advanced-level sequence.

- 312 Advanced Chinese (4)**
Prereq: 311 or equiv. (winter) Continuation of 311.
- 313 Advanced Chinese (4)**
Prereq: 312 or equiv. (spring) Continuation of 312.

Hausa (African)

- 111 Elementary Hausa (4)**
(fall) Beginning course of a 3-qr 1st-yr sequence.
- 112 Elementary Hausa (4)**
Prereq: 111 or equiv. (winter) Continuation of 111.
- 113 Elementary Hausa (4)**
Prereq: 112 or equiv. (spring) Continuation of 112.
- 211 Intermediate Hausa (4)**
Prereq: 113 or equiv. (fall) First course of a 3-qr intermediate-level sequence.
- 212 Intermediate Hausa (4)**
Prereq: 211 or equiv. (winter) Continuation of 211.
- 213 Intermediate Hausa (4)**
Prereq: 212 or equiv. (spring) Continuation of 212.
- 311 Advanced Hausa (4)**
Prereq: 213 or equiv. (fall) Beginning of an advanced-level sequence.
- 312 Advanced Hausa (4)**
Prereq: 311 or equiv. (winter) Continuation of 311.
- 313 Advanced Hausa (4)**
Prereq: 312 or equiv. (spring) Continuation of 312.

Indonesian/Malay (Asian)

- 111 Elementary Indonesian/Malay (4)**
(fall) Beginning course of a 3-qr 1st-yr sequence.
- 112 Elementary Indonesian/Malay (4)**
Prereq: 111 or equiv. (winter) Continuation of 111.
- 113 Elementary Indonesian/Malay (4)**
Prereq: 112 or equiv. (spring) Continuation of 112.
- 211 Intermediate Indonesian/Malay (4)**
Prereq: 113 or equiv. (fall) First course of a 3-qr intermediate-level sequence.
- 212 Intermediate Indonesian/Malay (4)**
Prereq: 211 or equiv. (winter) Continuation of 211.
- 213 Intermediate Indonesian/Malay (4)**
Prereq: 212 or equiv. (spring) Continuation of 212.
- 311 Advanced Indonesian/Malay (4)**
Prereq: 213 or equiv. (fall) Beginning of an advanced-level sequence.
- 312 Advanced Indonesian/Malay (4)**
Prereq: 311 or equiv. (winter) Continuation of 311.
- 313 Advanced Indonesian/Malay (4)**
Prereq: 312 or equiv. (spring) Continuation of 312.

Swahili (African)

- 111 Elementary Swahili (4)**
(fall) Beginning course of a 3-qr 1st-yr sequence.
- 112 Elementary Swahili (4)**
Prereq: 111 or equiv. (winter) Continuation of 111.

- 113 Elementary Swahili (4)**
Prereq: 112 or equiv. (spring) Continuation of 112.
- 211 Intermediate Swahili (4)**
Prereq: 113 or equiv. (fall) First course of a 3-qr intermediate-level sequence.
- 212 Intermediate Swahili (4)**
Prereq: 211 or equiv. (winter) Continuation of 211.
- 213 Intermediate Swahili (4)**
Prereq: 212 or equiv. (spring) Continuation of 212.
- 311 Advanced Swahili (4)**
Prereq: 213 or equiv. (fall) Beginning of an advanced-level sequence.
- 312 Advanced Swahili (4)**
Prereq: 311 or equiv. (winter) Continuation of 311.
- 313 Advanced Swahili (4)**
Prereq: 312 or equiv. (spring) Continuation of 312.

Southeast Asian Literatures in Translation

- 340 Traditional Literature of Southeast Asia (3)**
(winter) Survey of traditional literature of Southeast Asia in translation.
- 345 Modern Literature of Southeast Asia (3)**
(spring) Survey of modern literature of Southeast Asia in translation.

GERMANIC, ROMANCE AND SLAVIC LANGUAGES

(Department of Modern Languages)

Majors are offered in French, German, Russian, and Spanish.

The major requirement for the A.B. degree in French, German, or Russian is a minimum of 36 quarter hours beyond 213 or 241. In Spanish the requirement is 40 quarter hours beyond 213 or 241. (Please note: 241 is recommended but not required as the final intermediate-level course for modern language majors.) Specific course requirements for French, German, and Russian are 341; 342; 343; 348 or 349; 355; 356; and at least 12 quarter hours at the 400 level which should include courses in both language and literature. Spanish majors must, in addition to these, complete course 354.

Language majors who participate in study abroad programs are to take at least two 400-level courses in their major on the Athens campus. Spanish majors must take one of the following courses: 443, 444, 447, or 448 as part of the 400-level requirement. A modern languages major is not permitted to take courses in the major subject on the pass/fail basis. Should a student receive a D in a course required for the major, he or she must repeat the course until at least a C is made. Majors are strongly urged to study abroad in one of the department's centers. Suggested electives for majors are classical languages, comparative literature, cultural anthropology, English, fine arts, history of the country in the student's major interest, and linguistics. Language majors should acquire a reading knowledge of a second foreign language.

Requirements for the BS in education degree with a comprehensive program in a modern foreign

language are stated in the *College of Education* section of this catalog. Students wishing to complete teacher certification requirements as AB degree candidates should refer to the *Arts and Sciences* section for an explanation of the requirements. Prospective teachers are urged to spend at least one quarter in a country of their major language.

A minor requiring a minimum of 21 hours of language courses beyond 213/241 is offered in French, German, Italian, Russian, or Spanish. A grade of C or better must be received in a course for those hours to count toward a minor. There are no specific course requirements, but the student should observe prerequisites and course sequences. A student should consult the chairman of the majors committee in modern languages to develop a minor.

A student who is being certified in one high school or special fields major can be certified in a language minor area (French, German, Russian, or Spanish) by completing 45 credit hours in the minor language, including: 341-342-343 (12 hours); one of 348, 349, 354, 355, or 356 (4 hours); one of 437 or 439 (3 hours); and two or more hours of literary studies. Depending on the student's background, up to 24 hours of beginning and intermediate language (111-213/241) may be waived, with the waived hours noted on the student's transcript.

Language laboratory facilities include 150 student booths with individual tape recorders. Classrooms have speakers connected to a high-fidelity central console which can provide recorded material for various classes.

The department has chapters of Delta Phi Alpha and Phi Sigma Iota. The following study abroad programs are available through the department: *Austria*: Spring Quarter in Salzburg offers courses Beginning through Advanced German. *France*: Spring Quarter in Tours offers courses Beginning through Advanced French. *Canada*: Summer Quarter in Quebec offers Beginning and Intermediate French, and History Department courses. *Mexico*: 1) Portales — Winter Quarter in Xalapa offers Intermediate Spanish and a course in Latin American Area Studies. 2) Zapata — Spring Quarter in Xalapa offers Beginning and Intermediate Spanish. 3) Olmeca — Summer in Xalapa (7 weeks) offers a wide range of courses, including some in English.

For information on the Honors Tutorial Programs in French, German, Italian, Russian, and Spanish, see catalog section on the *Honors Tutorial College*.

Modern Languages (Introductory Culture and Civilization; Professional Courses)

Note: 250A-D, 410, and 445 do not count toward the major. With departmental approval 250A-D may be applied to the humanities requirement.

250A Field Studies in Austria (1-4, max 4)

Prereq: perm. Designed to introduce participants in study abroad program to various aspects of life in target country.

250B Field Studies in France (1-4, max 4)

Prereq: perm. Designed to introduce participants in study abroad program to various aspects of life in target country.

250C Field Studies in Mexico (1-4, max 4)

Prereq: perm. Designed to introduce participants in study abroad program to various aspects of life in target country.

410 The Language Laboratory: Media in Foreign Language Teaching (3)

Prereq: foreign language courses numbered 213 or 241, or courses in linguistics. Use of language lab and associated media as correlated with modern language classroom; instruction in selection, preparation, and use of instructional materials and tests, and in successful operation of laboratory and classroom equipment. Required of majors who plan to teach.

445 Teaching of Modern Foreign Languages (3)

Prereq: perm. Not to be counted as hours above 200 for the AB degree. Study, demonstration, and use of methods and materials for effective modern foreign language instruction. Required of majors who plan to teach.

Foreign Literatures in English

The lectures and readings for these courses are in English and are aimed at the entire University community. While they are not to be counted for a major in a modern foreign language, these courses may be counted toward fulfilling a part of the requirements for the humanities of the College of Arts and Sciences. No credit toward meeting the foreign language requirement.

334 Portuguese and Brazilian Literature in English (4)

Literature of Portugal or literature of Brazil in English translation. May be repeated for credit when subject changes.

335 Italian Literature in English (4)

Famous literary works of best Italian authors, presented in English. May be repeated for credit when subject changes.

336 Spanish Literature in English (4)

Topics may deal with either Spanish or Latin American literature. May be repeated for credit when topic changes.

337 French Literature in English (4)

Literary works by authors of French expression, read and discussed in English. May be repeated for credit when subject changes.

338A German Literature in English (4)

Survey of masterpieces of German literature, presented in English. May be repeated for credit when subject changes.

338B German Novel in English (4)

Introduction to major German, Swiss, and Austrian novelists in English translation.

339A Russian Literature in English (4)

Survey of Russian literature from beginnings to revolution, presented in English.

339B Soviet Literature in English (4)

Major developments of Russian literature from 1917 to present day.

French (Romance)

111 Elementary French (4)

Beginning course of a 3-qr, 1st-yr sequence. Basic grammatical concepts and patterns. Emphasis on development of reading, listening, comprehension, speaking, and writing skills. Basic text and workbook used. Lab required.

112 Elementary French (4)

Prereq: 111. Continuation of 111. Basic text, workbook, and readings used. Lab required.

113 Elementary French (4)

Prereq: 112. Continuation of 112. Basic text, workbook, and readings used. Lab required.

211 Intermediate French (4)

Prereq: 113 or 2 or 3 yrs high school French. First course of a 3-qr intermediate level sequence. Intensive review of grammar. Additional readings with discussion in French. Supplemental cultural material. Lab required.

212 Intermediate French (4)

Prereq: 211 or perm. Continuation of 211.

213 Intermediate French (4)

Prereq: 212 or 4 yrs high school French. Reading and discussion of selected modern works. Completion of 213 fulfills foreign language requirement of the College of Arts and Sciences. Not open to students who have completed 241. See 241.

241 Literature and Interpretation (4)

Prereq: 212 or 4 yrs high school French. Contemporary literature, literary analysis, and terminology. Recommended for majors when offered. Other interested students who made A or B in 212 may take 241 to fulfill foreign language requirement of the College of Arts and Sciences. Not open to students who have completed 213.

341 Advanced Conversation and Composition (4)

Prereq: 213 or perm. Conversation based on assigned topics. Writing of short compositions which are also discussed in class.

342 Advanced Conversation and Composition (4)

Prereq: 341 or perm. Continuation of speaking with more emphasis on writing skills.

343 Advanced Conversation and Composition (4)

Prereq: 342 or perm. Emphasis on writing.

348 French Civilization and Culture (4)

Prereq: 213, 241, or perm. (fall, winter) Social, political, and cultural history of France from Middle Ages to Revolution. Readings, discussions, class reports, and term papers.

349 French Civilization and Culture (4)

Prereq: 213, 241, or perm. (spring) Continuation of 348, covering period from 1799 to present. Problems of France in modern world.

355 Introduction to French Literature (4)

Prereq: 213 or 241. Reading and discussion of major French literary works from Middle Ages through 18th century.

356 Introduction to French Literature (4)

Prereq: 213 or 241. Extensive reading and discussion of major French literary works of 19th and 20th centuries.

H391 Honors Reading (1)

Prereq: perm.

415 French Literature of the Renaissance (4)

Prereq: 355 and 356. Major 16th century writers.

416 French Literature of the Renaissance (4)

Prereq: 355 and 356. Continuation of 415.

418 17th Century French Literature (4)

Prereq: 355 and 356. Works by numerous authors,

including at least some of the following: Descartes, Pascal, Mme de La Fayette, La Rochefoucauld, La Bruyere, La Fontaine, and Boileau.

419 17th Century French Literature (4)

Prereq: 355 and 356. Major plays of Corneille, Racine, and Moliere.

423 18th Century (4)

Prereq: 355 and 356. French literature and thought in Age of Enlightenment.

424 18th Century (4)

Prereq: 355 and 356. Continuation of 423.

425 Romanticism (4)

Prereq: 355 and 356. Romanticism in drama, poetry, and fiction of first half of 19th century.

426 Realism and Naturalism (4)

Prereq: 355 and 356. Fiction and drama of second half of 19th century.

427 French Poetry in the Second Half of the 19th Century (4)

Prereq: 355 and 356. Poetry of Leconte de Lisle, Heredia, Baudelaire, Verlaine, Rimbaud, and Mallarme.

429 20th Century French Literature I (4)

Prereq: 355 and 356. Works by various authors, including at least some of following: Anouilh, Apollinaire, Beckett, Camus, Gide, Giraudoux, Ionesco, Malraux, Mauriac, Proust, Robbe-Grillet, Sartre, Valery.

431 20th Century French Literature II (4)

Prereq: 355 and 356. Works by various authors, including at least some of those listed in 429. During any 2-yr period, all or most required readings for 429 and 431 will differ.

433 20th Century French Literature III (4)

Prereq: 355 and 356. Study in depth of a genre, theme, work, or major figure of 20th century.

435 Proseminar (1-4, max 12)

Prereq: perm. Subject will vary. May be repeated when subject changes.

437 Applied Phonetics (3)

Prereq: perm. (fall) Advanced study of International Phonetic Alphabet and transcription practice in French.

439 Modern French Usage (3)

Prereq: 343 or perm. (winter) Finer points of grammar. Practice in composition and analysis of texts.

441 Stylistics (3)

Prereq: 343 or perm. (spring) Composition. *Explication de texte*. Translation of English into French. Study of French prosody.

H491 Honors Research (1)

Prereq: perm.

German (Germanic)

111 Elementary German (4)

Introduction to pronunciation and basic grammar. Development of comprehension and speaking skills. Lab required. Beginning course of a 3-qr 1st-yr sequence.

112 Elementary German (4)

Prereq: 111. Continuation of 111. Lab required.

113 Elementary German (4)

Prereq: 112. Continuation of 112. Continued development of skills of oral and written production and comprehension. Lab required.

211 Intermediate German (4)

Prereq: 113 or 2 or 3 yrs h.s. German. Continued development of listening comprehension, reading, writing, and speaking skills. Grammar review. Lab required. First course of 3-qtr intermediate-level sequence.

212 Intermediate German (4)

Prereq: 211 or perm. Continuation of 211. Emphasis on discussion of modern texts. Continued development of listening comprehension and speaking and writing skills. Lab required.

213 Intermediate German (4)

Prereq: 212 or 4 yrs h.s. German. Modern German texts are read and form basis for discussions and written assignments. Completion of 213 fulfills foreign language requirement of the College of Arts and Sciences. Not open to students who have completed 241. See 241.

235 German Drama on Stage (2-4)

Prereq: 211. (winter) Presentation of German drama on stage. Private coaching in pronunciation and inflection of German. Credit varies according to role of student. May be repeated for credit with perm.

241 Literature and Interpretation (4)

Prereq: 212 or 4 yrs of h.s. German. See Fr 241 for description. Not open to students who have completed 213.

341 Advanced Conversation and Composition (4)

Prereq: 213 or perm.

342 Advanced Conversation and Composition (4)

Prereq: 341 or perm.

343 Advanced Conversation and Composition (4)

Prereq: 342 or perm.

348 German Culture and Civilization (4)

Prereq: 213, 241, or perm. (fall, winter) Historical, intellectual, and artistic aspects of German, Austrian, and Swiss culture from earliest times to present.

349 German Culture and Civilization (4)

Prereq: 213, 241 or perm. (spring) Continuation of 348.

355 Introduction to German Literature (4)

Prereq: 213 or 241. Study of major literary works, with emphasis on 18th and 19th centuries.

356 Introduction to German Literature (4)

Prereq: 213 or 241. Study of major literary works of 20th century.

H391 Honors Reading (1)

Prereq: perm.

425 19th Century German Literature (4)

Prereq: 355 and 356.

426 19th Century German Literature (4)

Prereq: 355 and 356.

427 19th Century German Literature (4)

Prereq: 355 and 356.

429 20th Century German Literature (4)

Prereq: 355 and 356.

430 20th Century German Literature (4)

Prereq: 355 and 356.

431 20th Century German Literature (4)

Prereq: 355 and 356.

433 German Lyric Poetry (4)

Prereq: 355 and 356. Interpretative and critical study of German lyric poetry.

435 Proseminar (1-4, max 12)

Prereq: perm. Intensive analysis of major author, literary genre, or theme. When subject is changed, student may reenroll.

437 Phonology (3)

Prereq: perm. (fall) Problems in description and teaching of German sound system. Training in phonetic and phonemic transcription. Pronunciation drills. Contrastive analysis.

439 Grammatical Structure (3)

Prereq: 343 or perm. (winter) Selected problems in analysis and classroom presentation of German morphology and syntax.

441 Stylistics (3)

Prereq: 343 or perm. (spring) Advanced writing and stylistic analysis. Practice in a variety of nonfiction prose techniques.

447 Readings in German Literature from the 12th through the 17th Century (4)

Prereq: 355 and 356. Literature of Courtly Period, Renaissance, and Reformation and Baroque.

448 Readings in German Literature from the 12th through the 17th Century (4)

Prereq: 355 and 356. Continuation of 447.

453 The Age of Goethe (4)

Prereq: 355 and 356. Major works of Lessing, Schiller, and Goethe.

454 The Age of Goethe (4)

Prereq: 355 and 356. Continuation of 453. See 453 for description.

455 The Age of Goethe (4)

Prereq: 355 and 356. Continuation of 453 and 454. See 453 for description.

H491 Honors Research (1)

Prereq: perm.

Italian (Romance)

111 Elementary Italian (4)

(fall) Beginning course of 3-qtr 1st-yr sequence.

112 Elementary Italian (4)

Prereq: 111. (winter) Continuation of 111.

113 Elementary Italian (4)

Prereq: 112. (spring) Continuation of 112.

211 Intermediate Italian (4)

Prereq: 113 or 2 or 3 yrs h.s. Italian. (fall) First course of 3-qtr intermediate-level sequence.

212 Intermediate Italian (4)

Prereq: 211 or perm. (winter) Continuation of 211.

213 Intermediate Italian (4)

Prereq: 212 or 4 yrs h.s. Italian. (spring) Successful completion of 213 fulfills foreign language require-

ment of the College of Arts and Sciences. Not open to students who have completed 241. See 241.

241 Literature and Interpretation (4)

Prereq: 212 or 4 yrs h.s. Italian. See Fr 241 for description. Not open to students who have completed 213.

341 Advanced Conversation and Composition (4)

Prereq: 213 or perm. (fall)

342 Advanced Conversation and Composition (4)

Prereq: 341 or perm.

343 Advanced Conversation and Composition (4)

Prereq: 342 or perm.

348 Italian Civilization and Culture (4)

Prereq: 213 or perm. (winter) Historical and cultural development of Italy from Middle Ages to Renaissance.

349 Italian Civilization and Culture (4)

Prereq: 213 or perm. (spring) Continuation of 348, covering period from Renaissance to present.

355 Introduction to Italian Literature (4)

Prereq: 213, 241, or perm.

356 Introduction to Italian Literature (4)

Prereq: 213, 241, or perm.

H391 Honors Reading (1)

Prereq: perm.

H491 Honors Research (1)

Prereq: perm.

Portuguese (Romance)

111 Elementary Portuguese (4)

(fall) Beginning course of 3-qtr 1st-yr sequence.

112 Elementary Portuguese (4)

Prereq: 111. (winter) Continuation of 111.

113 Elementary Portuguese (4)

Prereq: 112. (spring) Continuation of 112.

211 Intermediate Portuguese (4)

Prereq: 113 or 2 or 3 yrs h.s. Portuguese. (fall) First course of 3-qtr intermediate-level sequence.

212 Intermediate Portuguese (4)

Prereq: 211 or perm. (winter) Continuation of 211.

213 Intermediate Portuguese (4)

Prereq: 212 or 4 yrs h.s. Portuguese. (spring) Successful completion of 213 fulfills language requirement of the College of Arts and Sciences. Not open to students who have completed 241. See 241.

241 Literature and Interpretation (4)

Prereq: 212 or 4 yrs h.s. Portuguese. See Fr 241 for description. Not open to students who have completed 213.

H391 Honors Reading (1)

Prereq: perm.

H491 Honors Research (1)

Prereq: perm.

Russian (Slavic)

111 Elementary Russian (4)

(fall) Beginning course of 3-qtr 1st-yr sequence.

112 Elementary Russian (4)

Prereq: 111. (winter) Continuation of 111.

113 Elementary Russian (4)

Prereq: 112. (spring) Continuation of 112.

211 Intermediate Russian (4)

Prereq: 113 or 2 or 3 yrs h.s. Russian. (fall) Continued language study. Review of grammar. First course of 3-qtr intermediate-level sequence.

212 Intermediate Russian (4)

Prereq: 211 or perm. (winter) Continuation of 211. Extensive reading, writing, and oral practice.

213 Intermediate Russian (4)

Prereq: 212 or 4 yrs h.s. Russian. (spring) Accelerated reading, writing, and oral practice. Completion of 213 fulfills foreign language requirement of the College of Arts and Sciences. Not open to students who have completed 241.

241 Literature and Interpretation (4)

Prereq: 212 or 4 yrs h.s. Russian. See Fr 241 for description. Not open to students who have completed 213.

341 Advanced Conversation and Composition (4)

Prereq: 213 or perm. (fall)

342 Advanced Conversation and Composition (4)

Prereq: 341 or perm. (winter)

343 Advanced Conversation and Composition (4)

Prereq: 342 or perm. (spring)

348 The Cultural History of Russia (4)

Prereq: 213, 241 or perm. Cultural heritage of Russian people. Origin of Russian literature. Russian chronicles. Three cycles of the *bylina*. Russian ballads. Russian folklore. Readings and lectures in Russian.

349 The Cultural History of Russia (4)

Prereq: 213, 241 or perm. Continuation of 348.

355 Introduction to Russian Literature (4)

Prereq: 213 or 241. Analysis of genres and literary movements.

356 Introduction to Russian Literature (4)

Prereq: 213 or 241. Continuation of 355.

H391 Honors Reading (1)

Prereq: perm.

397 Introduction to the History of the Russian Language (3)

Prereq: 213 or 241 or 4 yrs h.s. Russian. (spring) Russian phonology, morphology, and syntax from Common Slavic to present. East, West, and South Slavic languages.

411 19th Century Russian Literature (4)

Prereq: 355 and 356. Pushkin and Lermontov.

412 19th Century Russian Literature (4)

Prereq: 355 and 356. Gogol, Turgenev, and Dostoevsky.

413 19th Century Russian Literature (4)

Prereq: 355 and 356. Tolstoy and Chekhov.

429 Russian Literature in the Soviet Era (4)

Prereq: 355 and 356.

430 Russian Literature in the Soviet Era (4)

Prereq: 355 and 356. Continuation of 429.

431 Russian Literature in the Soviet Era (4)

Prereq: 355 and 356. Continuation of 429 and 430.

435 Proseminar (1-4, max 12)

Prereq: perm. Subject will vary. May be repeated when subject changes.

437 Applied Phonetics (3)

Prereq: perm. (fall)

439 Structure of Modern Russian (3)

Prereq: 343 or perm. (winter) Accurate linguistic description of entire structure of Russian.

441 Stylistics (3)

Prereq: 343 or perm. (spring) Advanced writing and stylistic analysis.

H491 Honors Research (1)

Prereq: perm.

Spanish (Romance)

111 Elementary Spanish (4)

Development of comprehension, speaking, and reading skills. Basic grammar. Lab required. Beginning course of 3-qtr 1st-yr sequence.

112 Elementary Spanish (4)

Prereq: 111. Continuation of 111.

113 Elementary Spanish (4)

Prereq: 112. Continuation of 112.

211 Intermediate Spanish (4)

Prereq: 113 or 2 or 3 yrs h.s. Spanish. Intensive review of grammar. Additional readings and discussion in Spanish. Supplemental cultural material. Lab required. First course of 3-qtr intermediate-level sequence.

212 Intermediate Spanish (4)

Prereq: 211 or perm. Continued review. Additional literary readings with discussion in Spanish.

213 Intermediate Spanish (4)

Prereq: 212 or 4 yrs h.s. Spanish. Selected readings of 20th century Spanish dramatists, poets, novelists, and essayists with discussion in Spanish. Completion of 213 fulfills foreign language requirement of the College of Arts and Sciences. Not open to students who have completed 241.

241 Literature and Interpretation (4)

Prereq: 212 or 4 yrs h.s. Spanish. See Fr 241 for description. Not open to students who have completed 213.

341 Advanced Conversation and Composition (4)

Prereq: 213 or perm. Conversation based on assigned topics. Writings of short compositions which are also discussed in class.

342 Advanced Conversation and Composition (4)

Prereq: 341 or perm. Continuation of speaking with more emphasis on writing skills.

343 Advanced Conversation and Composition (4)

Prereq: 342 or perm. Emphasis on writing.

348 Spanish Civilization and Culture (4)

Prereq: 213, 241 or perm. (fall, winter) Historical, social, political, and cultural readings about Spain.

349 Spanish American Civilization and Culture (4)

Prereq: 213, 241 or perm. (spring) Lectures in Spanish on Indian civilizations, colonial period, 19th and 20th centuries.

354 Introduction to Spanish Literature (4)

Prereq: 213 or 241. Selected Spanish and Spanish American plays. Historical developments and trends in Hispanic theater. Terminology. Readings, lectures, and discussion.

355 Introduction to Spanish Literature (4)

Prereq: 213 or 241. Selected Spanish and Spanish American novels and shorter fiction. Historical development and trends in Hispanic narrative form. Terminology. Readings, lectures, and discussion.

356 Introduction to Spanish Literature (4)

Prereq: 213 or 241. Selected Spanish and Spanish American poetry. Historical development and tendencies in Hispanic verse. Movements and terminology. Introduction to essay as art form. Readings, lectures, and discussion.

H391 Honors Reading (1)

Prereq: perm.

425 19th Century Spanish Literature (1800-1850) (4)

Prereq: 354, 355 and 356. Romanticism, *costumbrismo*, and other trends in drama, essay, and poetry.

427 19th Century Spanish Literature (1850-1900) (4)

Prereq: 354, 355 and 356. Emphasis on regionalism and naturalism in the novel.

429 Generation of '98 (4)

Prereq: 354, 355 and 356. Representative works by Azorin, Baroja, Machado, Unamuno, Valle-Inclan, Benavente, Ortega y Gasset, and other authors.

432 20th Century Spanish Literature (4)

Prereq: 354, 355 and 356. Study of poetry, drama, and novel in Spain since 1925. Works by various authors including at least some of following: Lorca, Salinas, Guillén, Aleixandre, Casona, Buero Vallejo, Sastre, Cela, Delibes, Hierro, Bousoño, Martín-Santos, Benet.

435 Proseminar (1-4, max 12)

Prereq: perm. Subject will vary. May be repeated when subject changes.

437 Applied Phonetics (3)

Prereq: perm. (fall) Systematic description of segmental and prosodic elements of Spanish system, particularly as contrasted with English.

439 Modern Spanish Usage (3)

Prereq: 343 or perm. Syntactical and grammatical structure of modern Spanish.

441 Stylistics (3)

Prereq: 343 or perm. Analysis of literary styles and study of techniques used to acquire correct style in writing Spanish.

443 Survey of Spanish American Literature (4)

Prereq: perm. Main trends of Spanish American literature from colonial period to *Modernismo*.

444 Survey of Spanish American Literature (4)

Prereq: perm. Continuation of 443. Main trends of Spanish American literature from *Modernismo* to contemporary period.

447 Themes from Spanish American Prose (4)

Prereq: perm.

448 Contemporary Spanish American Literature (4)

Prereq: perm.

453 Drama of the Golden Age (4)

Prereq: perm. Works by Lope de Vega, Tirso de Molina, Juan Ruiz de Alarcón, Calderón, and related dramatists.

455 Novel of the Golden Age (4)Prereq: perm. Picaresque novel, Cervantes' *novelas ejemplares* and other trends in novel of 16th and 17th centuries.**458 Don Quijote de la Mancha (4)**Prereq: perm. Intensive study of Part One and Part Two of Spain's greatest novel. Biographical material concerning Miguel de Cervantes, author of the *Quijote*.**H491 Honors Research (1)**

Prereq: perm.

GREEK AND LATIN LANGUAGES

(Department of Classical Languages)

The Latin major requirement for the AB degree is a minimum of 39 hours above courses 111-112-113, with at least nine hours of 400-level courses consisting of Classical Languages 401, Latin 433, and other 400-level work in Latin. Majors are not permitted to take Latin courses on a pass/fail basis.

A major in Greek is not offered, but Latin majors, especially those who are planning graduate work, are encouraged to take as much Greek as they can.

Archaeology**201 Introduction to Archaeology — Egypt (5)**

(fall, 1978 and 1980) *H. Hultgren*. Aims, methods, and techniques; general types of archaeological work and excavation. Open to students who have had 203 and/or 352, as well as to beginners.

203 Introduction to Archaeology — Rome (5)

(fall, 1979 and 1981) *H. Hultgren*. Similar to 201, but with emphasis on Roman sites and antiquities. Open to students who have had 201 and/or 352, as well as to beginners.

352 Archaeology of Greece (5)

Prereq: 201 or 203; or 18 hrs foreign language; or 12 hrs history or art history. (spring) *H. Hultgren*. Archaeology of Greece and Aegean Islands, with emphasis on Minoan and Mycenaean civilizations.

490 Independent Study (1-5, max 12)

Prereq: perm. *H. Hultgren*. Specialized study in archaeology for those students who have legitimate needs and interests not served by 201, 203, or 352.

Greek**111 Beginning Greek (4)**

H. Hultgren. Grammar, vocabulary, and reading of ancient Attic Greek.

112 Beginning Greek (4)

Prereq: 111. Continuation of 111. See 111 for description.

113 Beginning Greek (4)

Prereq: 112. Continuation of 111-112. See 111 for description.

127 Greek Words in English (3)

P. Murphy. General and technical vocabulary derived from Greek. No knowledge of Greek required. No credit toward meeting foreign language requirement.

211 Greek Prose and Poetry (3)

Prereq: 113. *P. Murphy*. Review of language principles. Readings adapted to needs and interests.

212 Greek Prose and Poetry (3)

Prereq: 211. Continuation of 211. See 211 for description.

213 Greek Prose and Poetry (3)

Prereq: 212. Continuation of 211-212. See 211 for description. Passing 213 fulfills foreign language requirements of College of Arts and Sciences for AB degree.

409 Advanced Greek Readings (2-4, max 18)

Prereq: 21 hrs. (on demand) Selections adapted to needs and interests.

Latin**111 Beginning Latin (4)**

Grammar, vocabulary, and reading.

112 Beginning Latin (4)

Prereq: 111. Continuation of 111. See 111 for description.

113 Beginning Latin (4)

Prereq: 112. Continuation of 111-112. See 111 for description.

211 Intermediate Latin (4)

Prereq: 113 or 2-3 yrs h.s. Latin. Review of h.s. Latin with reading of easy prose.

212 Intermediate Latin (4)

Prereq: 211. Continuation of 211. Reading of Vergil.

213 Intermediate Latin (4)

Prereq: 212. Continuation of 211-212. See 212 for description. Passing 213 fulfills foreign language requirements of College of Arts and Sciences for AB degree.

351 Latin Prose and Poetry (3)

Prereq: 213 or 4 yrs h.s. Latin, or 3 yrs h.s. Latin and perm. *H. Hultgren*. Review of essential Latin. Reading of Cicero's essays, a play of Plautus or Terence, Horace's *Odes* and *Epodes*.

352 Latin Prose and Poetry (3)

Prereq: 213. Continuation of 351. See 351 for description.

353 Latin Prose and Poetry (3)

Prereq: 203. Continuation of 351-352. See 351 for description.

364 The Teaching of High School Latin (3)

Prereq: 203. (on demand) *H. Hultgren*. Content and methods of teaching h.s. Latin courses.

411 Latin Literature of the Republic (3)

Prereq: 353. (1976-77) Selections from works of Plautus, Terence, Caesar, Cicero, Lucretius, Catullus, and Sallust.

412 Latin Literature of the Republic (3)

Prereq: 353. Continuation of 411. See 411 for description.

413 Latin Literature of the Republic (3)

Prereq: 353. Continuation of 411-412. See 411 for description.

415 Latin Literature of the Early Empire (3)

Prereq: 353. Selections from works of Vergil, Horace, Livy, Ovid, Martial, Tacitus, Juvenal, and Pliny the Younger.

416 Latin Literature of the Early Empire (3)

Prereq: 353. Continuation of 415. See 415 for description.

417 Latin Literature of the Early Empire (3)

Prereq: 353. Continuation of 415-416. See 415 for description.

419 Readings in Latin Literature (3)

Prereq: 353. Selections complement students' other readings in Latin literature.

420 Readings in Latin Literature (3)

Prereq: 353. Continuation of 419. See 419 for description.

421 Readings in Latin Literature (3)

Prereq: 353. Continuation of 419-420. See 419 for description.

433 Advanced Latin Syntax (3)

Prereq: 353. (on demand) *P. Murphy*. Writing of Latin prose.

440 Special Work in Latin (1-6, max 12)

Prereq: 353. (on demand) Specialized work in selected phases of classical study.

Classical Languages in English

The lectures and readings for these courses are in English, and the courses may count as part of the humanities area requirement of the College of Arts and Sciences. With the exception of course 401, which is required for a major in Latin, these courses cannot count toward a major in a foreign language or as part of the foreign language requirement of the College of Arts and Sciences.

234 Classical Mythology (3)

Introduction to classical mythology; readings and discussions of myths and their interpretations. No knowledge of Greek or Latin required. No credit toward meeting foreign language requirement.

235 Classical Literature in Translation (3)

Reading of Greek and Latin literature in English translation. May be counted as part of requirements for humanities of College of Arts and Sciences. May not be counted toward a major in Latin. No knowledge of Greek or Latin required. No credit toward meeting foreign language requirement.

236 Classical Literature in Translation (3)

Continuation of 235.

237 Classical Literature in Translation (3)

Continuation of 236.

401 The Life of the Romans (3)

Prereq: 12 hrs or 12 hrs history and antiquities. (on demand) *H. Hultgren*. Family, house, transportation, public amusements. Illustrations from ar-

chaeological evidence. No knowledge of Latin required. No credit toward meeting foreign language requirement.

FRENCH

See Foreign Languages and Literatures.

GEOGRAPHY

The requirements of geography majors studying for the AB or BS degree are 50 quarter hours in approved geography courses including 101, 121, 130, 312, 360, 470, 477 and at least one course from each of the following groups:

a) 230, 330, 331, 332, 420, 430; b) 201, 321, 325, 327, 422, 429. Completion of the above requirements automatically completes the College of Arts and Sciences requirement of 9 hours in the major at the junior-senior level.

Majors are not permitted to take geography courses on a pass/fail basis.

Students wishing to pursue the BS degree must obtain a strong background in the natural sciences. The selection of specific courses will be dependent on the student's interest and the advice of the faculty.

101 Elements of Physical Geography (5)

Systematic survey of temperature, precipitation, atmospheric and oceanic circulation, and global systems of climate, soils, natural vegetation, and landforms. 4 lec, one 2-hr lab.

121 Elements of Cultural Geography (4)

Examination of spatial dimensions of culture, emphasizing patterns of variation of selected cultural elements — language, religion, population, settlement, etc. — from spatial perspective and within particular spatial frameworks.

130 Economic Geography (4)

Systematic survey of basic economic patterns, locational factors affecting patterns, and spatial interrelationships influencing production.

140 World Regional Geography — Eurasia (4)

(fall) Survey of selected geographical elements — physical, cultural, and/or economic — which influence land utilization, historical-cultural development, and political modernization of Europe and Asia.

141 World Regional Geography — Africa and Oceania (4)

(winter) Survey of selected geographical elements — physical, cultural, and/or economic — which influence land utilization, historical-cultural development, and political modernization of Africa, Australia, New Zealand, and Pacific Islands.

142 World Regional Geography — Western Hemisphere (4)

(spring) Survey of selected geographical elements — physical, cultural, and/or economic — which influence land utilization, historical-cultural development, and political modernization of North and South America.

201 Environment and Man (4)

(fall, spring) Geographic survey of environmental changes caused by man's activities. Focus on problems of pollution of air, water, and biosphere and destruction of plant and animal communities.

230 Introduction to Urban Geography (4)

Urbanization, economic bases of cities, urban population characteristics, and internal and external relationships in urban areas, with a special emphasis on the American city.

240 Geography of Eastern United States (3)

Systematic and regional survey of eastern United States. Emphasis on cultural and economic development as conditioned by ethnic and environmental effects.

241 Geography of Western United States (3)

Systematic and regional survey of western United States. Emphasis on cultural and economic development as conditioned by ethnic and environmental effects.

242 Geography of Ohio (3)

H. Wilhelm. Detailed regional study of physical background, settlement, and economic development.

260 Map Reading and Interpretation (4)

(fall, spring) *H. Bloemer.* Uses and abuses of maps. Interpretation of topographic, thematic and cadastral maps. Emphasis on map analysis. 2 lec, one 2-hr lab.

301 Advanced Physical Geography (4)

Prereq: 101, 311 or 312. Application of physical geographic principles to specific research problems.

311 Elements of Meteorology (5)

Prereq: 101. *R. Isaac.* General survey of physical principles of weather. 4 lec, one 2-hr lab.

312 Climate (5)

Prereq: 101 or 311. *R. Isaac.* Exchanges of energy and moisture and their significance in man's utilization of earth's surface. 4 lec, one 2-hr lab.

321 Themes in Cultural Geography (4)

Prereq: 121 or perm. Systematic study of creation of human habitat. Exploitation of plants and animals, domestication, recent research. City origins and manifestations in different civilizations. Perceptions and ideas concerning environment.

325 Principles of Political Geography (4)

Prereq: 121 or perm. (winter) *B. Walter.* Systematic examination of basic approaches, topics, and spatial concepts in political geography, with case studies. Emphasis at nation-state level.

327 Resource Management (4)

Prereq: 201 or perm. (winter) Themes in American environmental history, methods of resource assessment and management, and selected case studies in managing renewable resources.

330 Transportation Geography (4)

Prereq: 130 or perm. *H. Bloemer.* Transportation systems in relation to economic structure of regions and as a basis for interregional linkages.

331 Geography of Agricultural Activity (4)

Prereq: 130 or perm. (fall) Agriculture examined from 5 viewpoints: evolution of agricultural systems; ecological analysis of traditional and modern agriculture; spatial economy of agriculture; feeding world's population.

332 Geography of Manufacturing (4)

Prereq: 130 or perm. *N. Bain.* Industrial location theory and practice.

340 Geography of Western Europe (4)

H. Wilhelm. Physical, cultural, and economic geography of western Europe.

342 Geography of the Soviet Union (4)

Physical, cultural, and economic geography of the Soviet Union.

343 Geography of Appalachia (5)

(winter) *H. Wilhelm.* Topical and regional survey of Appalachia with emphasis on settlement and rural and urban land use. National role of Appalachia assessed especially in regard to coal, conservation, reclamation, and recreation.

345 Contemporary Southeast Asia (4)

(fall) Survey of population, food production, natural resource exploitation, energy, physical base and regional concept in Southeast Asia.

350 Geography of Northern Africa (4)

F. Bernard, B. Walter. Physical and cultural-historical geography and problems of economic development of northern Africa.

351 Geography of Sub-Saharan Africa I — Systematic (4)

Prereq: 121 or perm. (fall) *F. Bernard, B. Walter.* Systematic examination of 4 selected themes relevant to modern geography of Africa. Emphasis on problems of development.

352 Geography of Sub-Saharan Africa II — Regional (4)

Prereq: 121 or perm. (winter) *F. Bernard, B. Walter.* Regional survey of 4 major areas of tropical Africa. A. East, B. West, C. Equatorial, D. Central and South.

355 Geography of South America (4)

Prereq: 101, 121, or perm. (spring) *L. Williams.* Regional survey of South America with emphasis on problems of social and economic development within Andean countries.

356 Geography of Middle America (4)

Prereq: 101, 121, or perm. (winter) *L. Williams.* Regional survey of Mexico, Central America, and West Indies, with emphasis on cultural history of region and current development problems.

360 Cartography and Graphics (4)

Prereq: perm. (fall) *H. Bloemer.* Introduction to basic design principles of esthetically pleasing maps, emphasizing legibility and readability from map user's viewpoint. Map construction ranges from simple map compilation to multi-color composition and scale reduction.

361 Statistical Cartography (5)

Prereq: perm. (winter) *H. Bloemer.* Cartographic techniques of representing quantitative data on maps.

365 Air-Photo Interpretation (4)

Prereq: perm. *H. Bloemer.* Principles and techniques used in air-photo interpretation for geographers, geologists, military, community planners, and engineers.

420 Land Use Planning (4)

Prereq: 130, 230, or perm. (winter) *J. Cobban.* Survey of land use planning in United States. Zoning, subdivision controls and modifications, rural land

use, open space, state land use plans. Case studies from U.S., Europe, and Third World.

422 Population Geography (4)

Prereq: 101, 121 or perm. (fall) *L. Williams*. Systematic survey of world population problems including distribution, composition, fertility, mortality, density, age-sex structure, and impact of these on world population growth and resources.

429 Settlement Geography (4)

(spring) *H. Wilhelm*. Patterns and forms of rural settlement in terms of environmental, functional, and traditional effects.

430 Advanced Urban Geography (4)

N. Bain. Such selected topics as internal structure, urban physical environment, and others.

460 Advanced Cartography (5)

Prereq: 360, 361 or perm. (spring) *H. Bloemer*. Computer-aided cartography for quantitative data, culminating in application of cal-comp plotter.

470 Development of Geographic Thought (4)

Prereq: geography major or perm. (spring) *B. Walter, J. Cobban*. Philosophical examination of evolution of geography as an academic discipline; historical theme covers major traditions, ideas, concepts, trends, controversies, and prominent geographers.

475 Research Methods in Geography (4)

Prereq: perm. (fall) *N. Bain, F. Bernard*. Research materials, methods of investigation and presentation of geographic data.

476 Field Methods (5-9)

Prereq: perm. (summer) Introduction to geographic field methods and techniques in rural and/or urban areas, involving field mapping and recording, spatial sampling, interviewing, coding and visual recording, field analysis, and reporting and summarizing.

477 Quantitative Methods (4)

Prereq: perm. *R. Isaac*. Systematic survey of quantitative techniques employed by geographers.

490 Geographic Studies (1-5, max 10)

Prereq: perm. *N. Bain* (B, I), *F. Bernard* (G), *H. Bloemer* (A), *R. Isaac* (C, D), *B. Walter* (E), *H. Wilhelm* (H), *L. Williams* (I), *Staff* (D, F, J). Supervised studies in fundamentals of geographic research. A. Cartography, B. Economic, C. Meteorology and Climatology, D. Physical, E. Political, F. Regional, G. Resource Management and Conservation, H. Settlement, I. Urban, J. Field Problems.

GEOLOGY

Required courses for the B.S. degree in minimum preparation for a professional career in geology are 101, 314, 315, 320, 330, 340, 350, 353, 356, 360, 362, 365, 387, and at least 3 courses from 331, 386, or the 400 level. In addition, the following extradepartmental courses are required: CHEM 141, 142, and 143, physics through 203 or 253, and mathematics through 263B.

The major requirement for the A.B. degree includes the following: 101, 356, 211, 310, 330, 340, 360, 362, and at least 2 courses at the 400 level. Extradepartmental requirements include CHEM 121 and 122, PHYS 201, and MATH 116. Students

entering the A.B. program should consult with the departmental undergraduate advisor regarding appropriate minors to be combined with the A.B. degree.

The Geology Department also offers special professional programs in the fields of water resources and environmental geology. See special curricula in the College of Arts and Sciences.

101 Earth Materials and Structure (4)

Nature and distribution of earth materials and their utilization as natural resources; discussion of earth structure, earthquakes, mountain building, and continental drift. 3 lec, 2 lab. Not open to students who have had 283.

102 Development of Landscapes (4)

Consideration of those processes involved in development of landscapes: streams, glaciers, wind, shoreline processes. 3 lec, 2 lab. Majors should take 330 instead of 102.

201 Man and the Physical Environment (4)

Prereq: soph rank. Survey of geological aspects of environmental crisis. Focus on major environmental processes, immediate and extended influence of man, and prospects for future of physical environment. Presupposes no background in the sciences. 4 lec, field trips.

211 Introductory Oceanography (4)

Prereq: soph rank. Survey of physical, chemical, biological, and geological aspects of oceanography. 4 lec.

270 World Mineral Resources (3)

Prereq: soph rank. Major deposits of metal, non-metallic, and fuel resources which form backbone of modern industry. Economics and basic geologic controls of mineral production are reviewed. 3 lec with demonstrations. Not open to geology majors.

283 Geology for Engineers (4)

(spring) *S. Fisher*. Geologic principles applied to engineering projects and materials. 4 lec, 2 lab. Not open to students who have had 101.

291 Selected Topics in Geology (2)

Prereq: soph rank. 5-wk minicourses developed around specific topics in geology. **A. Earth Materials.** Characteristics of minerals and sedimentary, igneous, and metamorphic rocks. Not open to those who have had 101. **B. Glaciers and Glaciation.** Behavior of glaciers and effects of glaciation; causes of glaciation and prospects for future. **C. Geologic Development of North America.** Continental growth; character of marine invasions of North America; continental drift and mountain building. Not open to those who have had 103 or 303. **D. Volcanoes and Earthquakes.** Origin of volcanic activity and earthquakes; characteristics of volcanic eruptions and features produced; effects of volcanoes and earthquakes on man; prediction of earthquakes and volcanic eruptions. **E. Mineral Resources.** Types and origins of mineral resources; energy resources and effect on future society; current problems; energy shortages. **F. Fossils and Evolution.** Origin and development of life through geologic time. Not open to those with 103 or 303. **G. Soils and Weathering.** Weathering of rocks and genetic relationship to major soil types. **I. Water and Pollution.** Study of hydrological cycle; occurrence and flow of surface water and groundwater; problems of water pollution. **J. Continental Drift.** Nontechnical analysis of revolution in the earth sciences leading to continental drift and plate tectonics.

310 Rocks and Minerals (5)

Prereq: 101 or perm. (winter) *W. Phelps*. Common minerals, rocks, and related ores, including their classification, description, origin, and use. 3 lec, 4 lab. Not open to BS geology majors.

314 Crystallography (3)

Prereq: CHEM 141. (fall) *G. Heien*. Elements of crystallography and introduction to crystal chemistry. 1 lec, 4 lab.

315 Mineralogy (5)

Prereq: 314, Chem 142. (winter) *W. Phelps*. Descriptive and determinative mineralogy using physical and chemical properties. 3 lec, 4 lab.

320 Igneous and Metamorphic Petrology (4)

Prereq: 315. (spring) *G. Heien*. Silicate crystal chemistry and phase equilibria. Origin of igneous and metamorphic rocks. Hand specimen identification. 3 lec, 2 lab.

330 Principles of Geomorphology (5)

Prereq: 101. (winter) *G. Smith*. Basic concepts of origin and development of landforms. Laboratory study of topographic maps and aerial photographs. 4 lec, 2 lab.

331 Regional Geomorphology of North America (4)

Prereq: 330; 356 recom. (spring) *G. Smith*. General consideration of nature and origin of landforms of North America, emphasizing regional approach to study of landforms. 4 lec.

340 Principles of Paleontology (5)

Prereq: 356. (fall) *R. Mapes*. Invertebrate fossils emphasizing their theory of study, morphology, classification, and biologic relationships. 3 lec, 4 lab, field work.

350 Sedimentology-Sedimentary Petrology (4)

Prereq: 101. (spring) *S. Fisher*. Principles of transport, deposition, and diagenesis of sediments. Origin and classification of sedimentary rocks. Hand specimen identification. 3 lec, 2 lab, field trips.

353 Principles of Stratigraphy (4)

Prereq: 350, 360. (fall) Basic concepts of stratigraphy; facies analysis, correlation, and principles of stratigraphic nomenclature. 3 lec, 2 lab.

356 Historical Geology (4)

Prereq: 101. (spring) *R. Mapes*. Earth and life history emphasizing geologic development, stratigraphy, and fossil record of North America. 3 lec, 2 lab.

360 Structural Geology (4)

Prereq: 101, 356 or perm. (fall) *G. Prager*. Principles of rock deformation from field and laboratory evidence, interpretation of folded and faulted rocks. 3 lec, 2 lab.

362 Geodynamics: The Earth's Interior (4)

Prereq: 101, PHYS 201, or perm. (winter) *M. Ahmad, G. Prager*. Gravity, magnetism, and heat flow of earth; velocity, structure, and seismicity; description of lithosphere, asthenosphere, mantle, and core by above properties; plate tectonics. 4 lec.

365 Field Studies in the Appalachians (2)

Prereq: 353, 360. (spring) *Staff*. Two 3-day weekend field problems in geologic mapping and structural geology conducted in Appalachian Mts.

386 Geologic Field Methods (4)

Prereq: perm. Use of hand level, Brunton pocket transit, plane table and telescopic alidade, altimeter, and aerial photographs in mapping. 1 lec, 6 lab.

387 Summer Field Geology (9)

Prereq: 320, 353, 360, 365 or perm. (7 weeks, including travel time, and 1 week report preparation, summer) *Staff*. Geologic mapping in deformed sedimentary, igneous, and metamorphic terranes. Written field report will be required. Course conducted in central Nevada.

406 Geology of Ohio (4)

Prereq: 103 or 356, or perm. Physiography, stratigraphy, and economic geology of Ohio. 4 lec, field trips.

407 Topographic Map and Aerial Photo Interpretation (4)

Prereq: 330, 360, or perm. (winter) *G. Smith*. Principles of use of topographic maps and aerial photographs for study and interpretation of geologic and geomorphic features. 2 lec, 4 lab.

413 Optical and X-ray Mineralogy (5)

Prereq: 320, Phys 202. (fall) *G. Heien*. Optical characteristics of minerals in polarized light; identification of minerals with petrographic microscope. Theory of and identification of minerals by x-ray diffraction. 3 lec, 4 lab.

420 General Petrography (5)

Prereq: 413. (winter) *Fisher, Heien*. Petrogenesis of sedimentary, igneous, and metamorphic rocks and their description and classification in thin section.

426 Principles of Geochemistry (4)

Prereq: 320, Chem 142, Math 263A. (spring) *G. Heien*. Low temperature solution geochemistry, and equilibrium (including sea water); Eh-pH relationships; applications of thermodynamics to geologic systems; introduction to isotope geochemistry. 4 lec.

432 Origin and Classification of Soils (4)

Prereq: 330 or perm. (spring) *G. Smith*. Consideration of concept of soil and factors of soil formation; introduction to soil morphology and systems of soil classification; discussion of major soil groups of the world and soils of Ohio. 3 lec, 2 lab, field work.

438 Glacial Geology (4)

Prereq: 330 or perm. (fall) *G. Smith*. Formation and behavior of glaciers, past and present; consideration of glacial processes; and causes and implications of ice ages. 3 lec, 2 lab, field trips.

443 Advanced Invertebrate Paleontology (5)

Prereq: 340. (winter) *R. Mapes*. Evolutionary trends, geologic history, selected index genera and faunas, and modern methods in study of invertebrate fossils. 3 lec, 4 lab, field work.

446 Principles of Micropaleontology (4)

Prereq: perm. (fall) Biology, morphology, taxonomic characteristics, and uses of microscopic fossils. 2 lec, 4 lab.

448 Principles of Paleocology (4)

Prereq: 340 or perm. (fall) Basic principles involved in reconstruction of paleo-environments. 3 lec, 2 lab, field work.

454 Marine Geology (4)

Prereq: 211 or perm. (winter) *T. Worsley*. Basic sedimentological processes and sedimentary facies in marine environments. 3 lec, 2 lab.

455 Precambrian Geology (4)

Prereq: perm. (spring) *W. Phelps*. Precambrian stratigraphy and igneous intrusions of North America and major problems involved. 3 lec, 2 lab.

461 Advanced Structural Geology (4)

Prereq: 360. (winter) *G. Prager*. Principles of structural analysis, detailed interpretation of folding, fold styles and patterns, and use of stereographic projections. 3 lec, 2 lab.

464 Regional Tectonics (4)

Prereq: 360 or perm. (winter) *G. Prager*. Study of some of earth's major orogenic belts, comparing them with respect to tectonic style, development, and manner of formation.

470 Economic Geology — Metals (4)

Prereq: 320. (fall) *W. Phelps*. Principles of metallic mineral deposition and survey of major ore deposits of the world. 3 lec, 2 lab.

471 Ore Deposits (4)

Prereq: 470. (winter) *W. Phelps*. Texture, paragenesis, and origin of metallic ores in polished sections. 3 lec, 2 lab.

473 Economic Geology — Nonmetals (4)

Prereq: 320. (fall) *S. Fisher*. Principles of nonmetallic mineral deposition and survey of nonmetallic and coal deposits of the world. 3 lec, 2 lab.

475 Petroleum Geology (4)

Prereq: 360. (fall) *S. Fisher*. Origin, migration, and accumulation of petroleum and survey of major oil basins of the world. 3 lec, 2 lab.

476 Subsurface Methods (4)

Prereq: perm. (winter) Resume of drilling, sampling, and logging by electric, radioactivity, temperature, neutron methods as applied to petroleum exploration, water, and engineering projects. 3 lec, 2 lab.

480 Hydrogeology I (4)

Prereq: perm. (fall) *M. Ahmad*. Principles governing occurrence, movement, and recovery of water in soil and aquifers. Hydrologic cycle, water budget, hydrology of agriculture, watershed studies, water chemistry, and pollution. 3 lec, 2 lab.

481 Hydrogeology II (4)

Prereq: perm. (winter) *M. Ahmad*. Steady and unsteady flow to a well, analysis of pumping test data, water well design, well development, interference of wells, design of well fields. 3 lec, 2 lab.

482 Theory of Groundwater Motion (4)

Prereq: 481. (spring) *M. Ahmad*. Basic principles and fundamental equations; D.E. of groundwater motion, solution of boundary value problems for different types of aquifer. Analytical and numerical methods in subsurface hydrology with emphasis on finite difference method; digital model. 4 lec.

483 Field Hydrology (6)

Prereq: water resources background. (summer) *M. Ahmad*. Field training in techniques of hydrology and water resources evaluation. 3 wks.

485 Applied Geophysics (4)

Prereq: perm. (spring) *M. Ahmad*. Introductory course on seismic, magnetic, gravity, and electrical prospecting. 3 lec, 2 lab.

488 Geologic Field Reconnaissance (2 or 3)

Prereq: perm. (winter) Spring vacation period geologic field trips to selected areas in eastern and central United States with pertinent conferences, readings, and reports.

490 Seminar in Geology (1-2)

Prereq: perm. Several seminars on specific topics in geology will be offered yearly. It is recommended that all majors participate in at least 1 seminar.

491 Geologic Studies (1-6, max 12)

Prereq: perm. *Staff*. Individual or small group independent study arranged with faculty members.

GERMAN

See Foreign Languages and Literatures.

GOVERNMENT

See Political Science.

GREEK

See Foreign Languages and Literatures.

HAUSA

See Foreign Languages and Literatures.

HEALTH, PHYSICAL EDUCATION AND RECREATION

Physical Education Activity Courses:

These courses are for students wishing to gain competency in an activity. Courses are offered on a credit/fail basis.

(C — Coed)
(M — Men)
(W — Women)

100A Archery (1) (C)

100B Badminton (1) (C)

100D Basketball (1) (M, W)

100D Yoga (1) (C)

100E Boating (1) (C)

100F Bowling (1) (C)

100G Conditioning and Weight Training (1) (M, W)

100H Crosseball (1) (M)

100I Curling (1) (C)

100J Fencing (1) (C)

100L Golf (1) (C)

- 100M Intermediate Golf (1) (C)
- 100N Gymnastics (1) (C)
- 100O Handball (1) (M)
- 100P Judo (1) (C)
- 100Q Karate (1) (C)
- 100R Life Saving (1) (C)
- 100T Skating (1) (C)
- 100U Figure Skating (1) (C)
- 100V Advanced Figure Skating (1) (C)
- 100W Squash (1) (W)
- 100X Swimming (1) (C)
- 100Y Intermediate Swimming (1) (C)
- 100Z Tennis (1) (C)
- 100.1 Intermediate Tennis (1) (C)
- 100.2 Volleyball (1) (C)
- 100.4 Scuba (1) (C)
- 100.5 Water Polo (1) (C)
- 100.6 Modern Dance (1) (C)
- 100.7 Ice Hockey Fundamentals (1) (M)
- 100.8 Lacrosse (1) (M, W)
- 100.9 Softball (1) (M, W)
- 101A Intermediate Judo (1) (C)
- 101B Intermediate Karate (1) (C)
- 101C Advanced Tennis (1) (C)
- 101E Cycling (1) (C)
- 101F Paddleball (1) (M, W)
- 101F Advanced Swimming (1) (C)
- 101G Intermediate Handball (1) (M)
- 101G Beginning Diving (1) (C)
- 101H Intermediate Fencing (1) (C)
- 101I Orienteering (1) (C)
- 101J Advanced Cycling (1) (C)
- 101K Team Handball (1) (M)
- 101L Advanced Orienteering (1) (C)
- 101L Intermediate Paddleball (1) (M)
- 101M Skiing (1) (C)
- 101N Beginning Water Skiing (1) (C)
- 101O Advanced Water Skiing (1) (C)
- 101P Intermediate Volleyball (1) (C)
- 1008 Belly Dancing (1) (C)
- 1009 Tai Chi (1) (C)
- 1012 Co Ed Softball (1) (C)
- 1013 Competitive Water Skiing (1) (C)
- 1014 Survival I (1) (C)
- 1015 Survival II (1) (C)
- 1016 Intermediate Yoga (1) (C)
- 1017 Intermediate Modern Dance (1) (C)
- 1018 Field Sports I (1) (C)

- 1019 Intermediate Belly Dancing (1) (C)
- 1020 Whitewater Rafting (1) (C)
- 1021 Adaptive Physical Education (1) (C)
- 1022 Ice Dancing (1) (C)
- 1023 Intermediate Snow Skiing (1) (C)
- 1024 Hunting (1) (C)
- 1025 Aerobic Conditioning (1)
- 1026 Trapshooting (1)
- 1027 Rapelling (1)
- 1028 Technical Climbing (1)
- 1209 Advanced Survival (1)
- 1030 Cross Country Skiing (1)

Professional Preparation Courses

These courses are primarily for students wishing to pursue the BS in education in health, physical education or recreation. Majors are not permitted to take these courses pass/fail.

103 Swimming I (2)

Prereq: physical education major or minor or perm. Basic swimming skills for nonswimmers and beginners.

104 Swimming II (2)

Prereq: 103 or students with deep-water swimming skills. Instruction in basic strokes and related aquatic skills at intermediate and advanced level.

106 Analysis of Movement (3)

Prereq: physical education major or minor or perm. Practical application of basic mechanical principles fundamental to posture, body mechanics, sports, dance, and related activities.

107 Modern Dance I (2)

Prereq: physical education major or minor or perm. Basic principles of dance technique. Movement progressions involving relationships of time, space, and dynamics.

108 Modern Dance II (2)

Prereq: 107 or equiv. Complex movement progressions, and experimentation in composition.

115 Rhythmics (2)

Prereq: physical education major or minor or perm. Practical approach to rhythm fundamentals through various dance forms.

116 Social Forms of Dance (2)

Prereq: 115 or perm. Intermediate skills in ballroom, folk, round, mixers, couple, and contra dance.

141 Golf and Archery (2)

Prereq: physical education major or minor or perm. Skills, knowledges and rules of golf and archery.

202 Personal and Community Health (4)

Practices and appreciation of means whereby health of individual and group may be maintained.

204 Drugs, Alcohol and Tobacco (3)

Prereq: 202. Indepth study of contemporary issues — drugs, alcohol, and tobacco for prospective teacher.

212 Introduction to Coaching (3)

Introduction to high school interscholastic athletics

including history, structures, job opportunity, and contemporary programs.

215 Practicum in Athletics (2)

Prereq: 212 or perm. Supervised field experience designed to involve student in coaching/administrative setting.

218 Life Saving and Water Safety (2)

Prereq: 104 or equiv or perm. Principles and practices of life saving for American Red Cross certification.

220 Water Safety for Instructors (2)

Prereq: Current Red Cross Life Saving Certificate. For those who hold valid American Red Cross Life Saving Certificate. Includes analysis of swimming, life saving techniques, and teaching practices.

221 Tennis-Badminton (2)

Prereq: physical education major or minor or perm. Court skills, tactics, strategy, and rules for both singles and doubles play.

222 Tumbling and Modern Gymnastics (2)

Prereq: physical education major or minor or perm. Stunts, tumbling, and modern gymnastics.

223 Track and Field (2)

Prereq: physical education major or minor or perm. Track and field activities suitable for girls and women.

225 Artistic Gymnastics (2)

Prereq: 222 or perm. Floor exercise, balance beam, vaulting, and uneven parallel bars.

227 First Aid (3)

Principles and practices of American Red Cross first aid. Standard certificate is granted if requirements are met.

234 Laboratory Experience in Physical Education (1-3)

Prereq: soph rank. Supervised teaching in public school physical education programs. Students must apply during the quarter preceding that of actual assignment. Course may be repeated in excess of 3 hrs credit with approval.

236 Field Experience in Recreation (1-3)

Prereq: soph rank and 250. Designed to provide sophomore recreation student with an opportunity to acquire supervised experiences in skills and techniques involved in differing areas of recreation.

240 Taxidermy I (2)

Prereq: soph rank. Study and practice of methods used to produce specimens that are exact replicas of living animals. Emphasis on birds.

241 Taxidermy II (2)

Prereq: 240. Continuation of 240, with major emphasis on game animals and fish.

250 Recreation Leadership (3)

Prereq: recreation major and/or minor or perm. Lectures and discussions concerning value of recreation, leadership techniques, and selection of activities.

251 Art and Nature Crafts for Recreational Programs (3)

Prereq: recreation major/minor or perm. Organization of art and nature crafts program and actual experiences in use of various craft materials with a particular emphasis on nature crafts.

252 Kinesiology (4)

Prereq: Zool 301. Analysis of human movement based on anatomical and mechanical principles.

262 Field Hockey and Soccer (2)

Prereq: physical education major or minor or perm. Skills, tactics, strategy, and rules of field hockey and soccer.

263 Basketball-Volleyball (2)

Prereq: physical education major or minor or perm. Fundamental skills, team tactics and strategies, and rules for games of basketball and volleyball.

264 Softball and Lacrosse (2)

Prereq: physical education major or minor or perm. Skills, tactics, strategy, and rules of softball and lacrosse.

266 Elementary School Physical Education Workshop (2)

Theory, teaching methods, techniques, and materials in elementary school physical education, with emphasis on appropriate rhythmical, individual, and group activities.

270 Teaching of Physical Education (3)

Lab and lecture experiences for teaching physical education in elementary school. Designed for elementary education students.

275 Elementary School Rhythms and Dance (3)

Rhythmics and dance activities for elementary level, involving movement exploration, creative dance, and traditional dance.

280 Methods — Analysis and Description in Teaching Physical Education (3)

Prereq: soph rank. Methods and materials of teaching-learning process for physical education classroom.

290 The Art of Sport Officiating (2)

Provides a meaningful, educational experience of a practical nature in area of sport officiating.

300 Elementary School Physical Education I (3)

Theory, teaching methods, techniques, and materials in elementary school physical education with emphasis on basic movement education for levels K-3.

301 Elementary School Physical Education II (3)

Theory, techniques, and materials for elementary school physical education program with emphasis on lead-up activities, creative game analysis, and sport and recreational skills for levels 4-6.

302 Motor Learning (4)

Prereq: Psy 375, Zool 345. Consideration of psychological, sociological, and physiological bases of learning and application of these theories to performance.

305 Coaching of Swimming (2)

Theory of coaching swimming and diving; analysis of skill, methods, duties, and responsibilities.

310 Program Planning and Facilities for Recreation (5)

Prereq: recreation major/minor or perm. Concepts and fundamentals of recreation programs, program planning and care, selection, and design of recreation facilities.

314 Camping (4)

Prereq: recreation major/minor or perm. Introduc-

tion to and experiences in different methods of camping and various skills associated with camping.

315 Outdoor Education and Recreation (4)

Prereq: recreation major/minor or perm. Designed to provide the student with fundamental knowledges necessary to provide learning experiences in the out-of-doors and for teaching necessary skills for outdoor living enjoyment.

318 Coaching of Tennis (3)

Prereq: intermediate skill level. Theory of coaching tennis: analysis of skills, strategies, methods, duties, and responsibilities. Limited practical work.

320 Coaching of Wrestling (3)

Theory of coaching wrestling: analysis of skills, strategies, methods, duties, and responsibilities.

322 Gymnastics (2)

Prereq: jr rank. Teaching methods, techniques, materials, theory, and practice in stunts and tumbling, apparatus, demonstrations and exhibitions, marching, and conditioning activities.

324 Coaching of Soccer (3)

Theory of coaching soccer: analysis of skills, strategies, methods, duties, and responsibilities.

325 Human Dynamics in Coaching (3)

Prereq: 212 or perm. Interpersonal dimensions of coaching and participating in interscholastic athletic program.

328 Instructor's First Aid (4)

Prereq: current first aid certificate. As prescribed and certified by the American Red Cross.

329 Introduction to Athletic Training (2)

Prereq: Zool 301, Zool 345, and perm. Treatment and prevention of athletic injuries.

330 Methods of Teaching Elementary and Secondary Physical Education (3)

Prereq: 3 theory and practice courses (9 hrs credit) or 300 and 301. Discussion and application of selected methods and techniques used in teaching of physical education.

333 Theory of Adapted Activities (3)

Prereq: Zool 301. Organization of physical activity programs adapted to needs of atypical individuals.

334 Advanced Laboratory Experience in Physical Education (3)

Prereq: jr rank and 234. Supervised teaching in public school physical education programs. Student may serve as team leader for 234 students. Students must apply during qtr preceding that of actual assignment. May be repeated with approval.

336 Field Experiences in Recreation (3)

Prereq: jr rank and/or perm. Designed to provide jr recreation student with an opportunity to acquire experience in skills and techniques involved in differing areas of recreation.

337 Dance Composition (2)

Prereq: 108 or equiv. Basic principles of composition, presentation, and choreography.

339 Athletic Officiating — Football (3)

(fall only) Rules, mechanics, and procedures in officiating. Practice under actual game conditions in Intramural Sports Program.

340 Athletic Officiating — Basketball (3)

(winter only) Rules, mechanics, and procedures in

officiating. Practice under actual game conditions in Intramural Sports Program.

341 Athletic Officiating — Baseball (3)

(spring only) Rules, mechanics, and procedures in umpiring. Practice under actual game conditions in Intramural Sports Program.

342 Sports Officiating III (1)

(spring) U.S.W.L.A. rules and procedures in officiating lacrosse; or N.A.G.W.S. and Federation rules and procedures in officiating track & field. Fee required for those taking local, state, or national rating examination.

345 Camp Leadership (2)

Responsibilities of camp personnel at executive, administrative, supervisory, and functional levels. Includes different types of organized camps and their individual programs.

350 Independent Study (1-5)

Prereq: perm. Study and/or research in selected fields related to health, physical education, athletics, intramurals, or recreation under direction of HPER undergraduate committee and faculty member.

351 Coaching of Golf (2)

Theory of coaching golf: analysis of skills, methods, duties, and responsibilities.

352 Coaching of Ice Hockey (3)

Theory of coaching ice hockey: analysis of skills, strategies, methods, duties, and responsibilities.

353 Coaching of Lacrosse (3)

Theory of coaching men and women's lacrosse: analysis of skills, strategies, methods, duties, and responsibilities.

354 Coaching of Volleyball (3)

Prereq: 212 or perm. Theory of coaching volleyball: analysis of skills, strategies, methods, duties, and responsibilities.

356 Coaching of Field Hockey (3)

Prereq: 212 or perm. Theory of coaching field hockey: analysis of skills, strategies, methods, duties, and responsibilities.

360 Environmental Health and Safety Epidemiology (5)

Prereq: 90 hrs. Basic environmental health and safety concepts, practices, and procedures of practical application in community health agencies.

365 Coaching of Basketball (3)

Theory of coaching basketball: analysis of skills, strategies, methods, duties, and responsibilities.

366 Coaching of Baseball/Softball (3)

Theory of coaching baseball: analysis of skills, strategies, methods, duties, and responsibilities.

367 Coaching of Football (3)

Theory of coaching football: analysis of skills, strategies, methods, duties, and responsibilities.

368 Coaching of Track (3)

Theory of coaching track: analysis of skills, strategies, methods, duties, and responsibilities.

369 Teaching of Health (5)

Prereq: HPER 202; jr rank. Instruction, principles, and curricula used in presenting health information to pupils in elementary and secondary schools.

370 Community Health Programs (4)

Prereq: 202. Institutional frameworks for promoting and maintaining health of the people in community, state, and nation.

371 Theory and Practice of Team Sports (3)

Prereq: 262, 263, or 264. Analysis and teaching progression of team sport skills. Organizational techniques and practices.

372 Theory and Practice of Individual Sports (3)

Prereq: 141, 221, or 223. Analysis and teaching progression of individual sport skills. Organizational techniques and practices.

373 Theory and Practice of Aquatics (3)

Prereq: 104 or 220. Analysis and teaching progression of aquatic skills and related activities. Organizational techniques and practices.

374 Theory and Practice in Rhythmic Activities (3)

Prereq: 107 or 108, 115 and 116, intermediate modern dance skill recommended. Teaching progression and materials for rhythmic programs on secondary level.

375 Theory and Practice of Gymnastics (3)

Prereq: 222 and 225. Materials, techniques, and practice of artistic and rhythmic gymnastics.

376 Institutional Recreation (4)

Prereq: recreation major/minor or perm. Study of therapeutic recreation service, principles, and practices in various types of institutions.

380 Safety Education (4)

Preparation for assuming responsibility for programs of safety education and accident prevention in schools, industry, and public services.

381 Administration of Intramural Sports (4)

Organizing and administering a program of intramural sports for all age levels.

403 History of Recreation (3)

Prereq: recreation major/minor or perm. Study of historical development of recreation from early worlds to present. Emphasis on contribution of recreation and its effect on man throughout history and its impact and implication for man's use of leisure time in present-day society.

404 History and Principles of Physical Education (4)

Prereq: jr or sr rank. History of sport and physical education from ancient to modern times. Principles underlying physical education in modern program of education.

406 Organization and Administration of Physical Education (5)

Organization and administration of physical education, intramural and athletic programs in elementary and secondary schools.

409 Tests and Measurements (4)

Prereq: sr rank. Administration and evaluation of tests in health, physical education, and athletics; practice in handling test data by elementary statistical methods.

412 Administration of Sports (3)

Prereq: 212 or perm. Focuses upon legal questions, public relations, ethics, budgeting, recruiting, crowd control, evaluation, and personnel.

414 Physiology of Exercise (4)

Prereq: Zool 345 or equiv. Fundamental concepts describing reaction of organ systems to exercise; study of work produced by muscle; special areas include sport conditioning, muscular fatigue, physiology and nutrition in exercise, weight control and exercise; physical fitness; exercise and environmental stresses; review of recent research in exercise physiology and human performance.

415 Physiology Exercise Lab (2)

420 Advanced Athletic Training (4)

Prereq: 329. Advanced techniques in prevention and care of athletic injuries.

421 Athletic Training Practicum (2)

Prereq: 329. To develop athletic training skills through practical experience with concentration on preventive and protective techniques.

435 Recreation and Physical Education for the Mentally Retarded and Learning Disabled (5)

Prereq: perm. Preparation for presenting activities and evaluating mentally retarded and learning disabled children and youth in areas of body mechanics, physical fitness, games of low organization, sports, rhythms, stunts, tumbling, and recreation activities.

440 Internship in Recreation (12)

Prereq: recreation major and perm. Supervised professional field work experiences in an approved program of recreation.

449 Community Recreation (4)

Prereq: sr rank. Programs and program building; administration of playgrounds, community centers, and recreational activities.

453 Clinical Observation and Practice in Physical Medicine and Rehabilitation (6)

Prereq: Zool 301, 345 or equiv. (summer) Concentrated summer school field course at V. A. hospital, Chillicothe. Instruction by hospital corrective therapy staff. Open to sr majors or grad students in physical education.

464 Community Health Services Practicum (15)

Prereq: sr rank. Participation in activities of an official or voluntary public health agency. Supervision of experience to be done by agency personnel and University faculty.

485 Perceptual Motor Development in Children (3)

Prereq: 106 and 302. Principles and practices in perceptual-motor development as they relate to children's movement experiences.

495 School Health Problems (5)

Prereq: 369 and sr rank. Principles, problems, organization, and administration of school health programs, including school and community relationships.

HEARING AND SPEECH SCIENCES

The curriculum in hearing and speech sciences is designed to give the student a basic understanding of the causes and treatment of various speech and hear-

ing disorders. Students who plan to qualify for an Ohio teaching certificate in speech and hearing therapy make application for this certificate through the College of Education. Although student teaching is not required for graduation it is strongly recommended. Students who do not intend to qualify for this certificate may apply personally to the HSS undergraduate coordinator for a clinical internship.

107 Voice and Articulation (2)

Designed to help each student recognize, evaluate, and compensate for or improve speech production characteristics.

108 Introduction to Speech Disorders (3)

Symptoms, causes, effects, and evaluation of disorders of speech, voice, and language.

209 Phonetics (4)

(fall) Speech sounds from a sociological, physiological, and acoustical point of view. Mastery of International Phonetic Alphabet and practice in English phonetic transcription.

210 Language Development (5)

Prereq: 209. (fall) Provides foundation in normal speech and language development. Development of meaning, symbolic representation, morphology, and syntax.

213 Anatomy (4)

(winter) Structures, musculature, and functions involved in respiration, phonation, resonance, and articulation for speech.

222 Diagnostics (4)

Prereq: 12 hrs speech pathology, 9 hrs psychology. (spring) Types of diagnosis in evaluation of speech and language problems. Screening tests; use of statistics in testing; basic interview and history procedures.

240 Practicum (2)

Prereq: HSS majors only. Introduction to therapy training through lectures and video tapes of diagnosis, therapy, and various areas of profession. 2 class meetings per wk. Qtr taken determines subsequent practicum sequence.

250 Speech Science (4)

(winter) Physical properties of speech signals. Analysis of speech and speech perception. Lab exercises and experiments included.

270 Basic Audiology (5)

Prereq: 250. (spring) Anatomy and neurology of audition. Measurement of hearing with pure tone techniques and interpretation of results of such measurements in terms of social and educational handicap.

315 Stuttering (3)

Prereq: HSS majors only; 9 hrs psychology. (fall) Consideration of causes, types, and effects of stuttering. Evaluation of stuttering. Practical consideration of therapy for stutterers, with emphasis on children's problems.

318 Articulation Disorders (4)

Prereq: HSS majors only; 209, 210. (fall) Phonetic acquisition, articulation evaluation. Emphasis on practical approaches to therapy for individuals with articulation disorders.

319 Voice and Resonance (3)

Prereq: HSS majors only; 213. (spring) Consideration of types and causes of functional and organic

voice and resonance problems. Evaluation of phonatory problems. Emphasis on practical approaches used in public school therapy.

336 Speech and Hearing Disorders in the Public Schools (3)

Nature, causes, and treatment of defective speech in public schools with special reference to role of classroom teacher. Not open to HSS majors.

341 Practicum (3)

Prereq: 240, passing speech proficiency and phonetic proficiency tests. Diagnosis, planning of therapy, therapy experience in clinical facility. 1 class meeting per wk plus clinic assignment.

343 School and Clinical Programs (2)

Prereq: HSS majors only. (winter) Organization, planning, and function in public school, community, and agency programs. Prerequisite to student teaching.

344 Disorders of Language (4)

Prereq: 210, 318. (winter) Introduction to study of disorders of language in children. Diagnosis of problems, assessment of language abilities. Methodologies and techniques in perceptual, psychomotor, and language and speech training.

345 Social Dialects (3)

Prereq: 209, 210; HSS majors only. (spring) Introduction to study of social dialects. Problems and controversies surrounding various issues of speakers of social dialects. Training in recognition of dialectal variations and in teaching standard English to speakers of other dialects.

424 Neuropathology (4)

Prereq: 213. (winter, spring) Anatomy and physiology of central, peripheral, and autonomic nervous systems. Types, causes, and syndromes of more significant pathologies of speech and language. Particular attention paid to neurological disorders.

433 Professional Training Seminar (3)

Prereq: sr rank, perm. Seminar in concepts underlying therapy procedures. Application of psychological, physiological, and neurological principles in various rehabilitation approaches. Lab time required.

437 Speech and Hearing Therapy in the Public Schools (2)

Prereq: eligibility for student teaching. Methods, organization, and implementation to speech and hearing programs in public schools. Must be taken concurrently with student teaching by majors assigned to Athens area.

442 Practicum (2)

Prereq: 341, grade of C or better in 318 and 344. Diagnosis, planning of therapy, therapy experience in clinic facility. 1 class meeting per wk plus clinic assignment.

442C Clinical Internship (1-15)

Prereq: Approval of clinic director. Placement in a clinic setting for 1 qtr. Application of diagnosis, therapy planning, and therapy techniques. Must have been applied for fall qtr of junior year and approved for internship. Apply in writing to HSS undergraduate coordinator.

471 Auditory Rehabilitation (5)

Prereq: 270. (fall, winter) Differential diagnosis of children with suspected auditory disorders. Basic remedial procedures employed with hearing handi-

capped. Practice in planning lessons in speech reading and auditory training.

479 Basic Manual Communication (2)

Prereq: HSS major or perm. (fall, winter) Basic instruction and practice in fingerspelling and signing used by and for the deaf and hard of hearing.

480 Advanced Manual Communication (2)

Prereq: 479; HSS major or perm. (winter, spring) Advanced instruction and practice in fingerspelling and signing used by and for the deaf and hard of hearing.

498 Special Problems (3-5, max 12)

Prereq: written proposal and perm in qtr prior to registration. Not open to graduate students.

499 Independent Reading in Speech Pathology, Audiology, and Speech Science (3-5, max 12)

Prereq: written proposal and perm in qtr prior to registration. Not open to graduate students.

HISTORY

The major requirement for the A.B. degree consists of a minimum of 52 hours, including eight hours at the 100 level and eight hours at the 200 level (unless excused as a result of taking a placement test), and 36 hours at the 300-400 level. Beyond the 200 level the following minimum hours are required: two courses in United States history, two courses in European history, and two courses from the following fields — ancient, Africa, Asia, Latin America, and Middle East. The 100 level should be taken during the freshman year and the 200 level during the sophomore year. Unless otherwise stated, the prerequisite for 300 level courses is sophomore standing or above and the prerequisite for 400 level courses is junior or senior standing. Courses in economics, geography, political science, statistics, and sociology and anthropology are suggested as electives. Completion of these requirements fulfills the Arts and Sciences College requirements of at least nine hours in the major at the junior-senior level. No history course taken on a pass/fail basis may be applied toward filling requirements for the history major.

101 Western Civilization in Modern Times (4)

Renaissance to 1648: Renaissance, Reformation, origins of national state system, diplomacy, and imperialism as applied to Portugal, Spain, and Hapsburg Empire, and commercial and scientific revolutions. When possible, majors should take 101-102-103 in sequence. Nonmajors may elect 102 without taking 101; they may elect 103 without taking 101 or 102.

102 Western Civilization in Modern Times (4)

Continuation of 101. Covers 1648 to 1848: absolutism, constitutionalism, operation of coalition diplomacy, and imperialism as applied to France and Britain; westernization of eastern Europe, enlightenment, French Revolution, agricultural, commercial, and industrial revolutions and growth of ideologies — liberalism, socialism, and nationalism. When possible, majors should take 101-102-103 in sequence. Nonmajors may elect 102 without taking 101; or 103 without taking 101 or 102.

103 Western Civilization in Modern Times (4)

Continuation of 101-102. Covers 1848 to present:

continued industrial revolution and spread of liberalism, socialism, and nationalism; rise and fall of German bid for power in 2 world wars; new ideologies of materialism, positivism, Social Darwinism, irrationalism, totalitarianism; Russian and Chinese revolutions and international communism; rise and fall of western empires in Africa and Asia. When possible, majors should take 101-102-103 in sequence. Nonmajors may elect 102 without taking 101; they may elect 103 without taking 101 or 102.

111 The Origins of Western Civilization (4)

Birth of civilization in Near East, culture of Greece and Rome, coming of Christianity, and medieval European states surveyed. Emphasis upon cultural contributions of these earlier societies to modern western civilization.

211 American History to 1828 (4)

Political, diplomatic, social, and economic development of American history. Covers 1607 to 1828: colonial America, founding of the new nation, and early national period. When possible, majors should take 211-212-213 in sequence. Nonmajors may elect 212 without taking 211; they may elect 213 without taking 211 or 212.

212 History of the United States, 1828-1900 (4)

Continuation of 211. Political, diplomatic, social, and economic development of American history. Covers 1828 to 1900: Jacksonian democracy, territorial expansion, sectionalism and controversy, Civil War, reconstruction, and impact of expanded Industrial Revolution. When possible, majors should take 211-212-213 in sequence. Nonmajors may elect 212 without taking 211; they may elect 213 without taking 211 or 212.

213 History of the United States Since 1900 (4)

Continuation of 211-212. Political, diplomatic, social, and economic development of American history. Covers 1900 to present: progressive movement, WW I, prosperity and depression, WW II, and problems of cold war era. When possible, majors should take 211-212-213 in sequence. Nonmajors may elect 212 without taking 211; they may elect 213 without taking 211 or 212.

297T Honors Tutorial Seminar, U.S. History (3-5)

Prereq: admission to Honors Tutorial College. (fall) Covers U.S. history, 1607 to present.

298T Honors Tutorial Study, U.S. History (1-5)

Prereq: 297T. (winter) Independent study, U.S. history.

299T Honors Tutorial Study, U.S. History (1-5)

Prereq: 298T. (spring) Independent study, U.S. history.

300A Colonial America to 1689 (4)

B. Steiner. English background, establishment of settlements, first economies, evolution of political and religious structures, relations with England, internal conflicts, Glorious Revolution.

300B Colonial America, 1689-1763 (4)

B. Steiner. Governmental changes, credit and currency, Great Awakening, cultural developments, old colonial system, Anglo-French rivalry, nature of colonial society, problems of maturing political units.

300C Revolutionary Era, 1763-1789 (4)

B. Steiner. Causes of American Revolution and struggle for independence. Confederation, movement for new government, framing of Constitution.

303 United States in World War II (4)

G. Lobdell. Military and diplomatic role of United States in WW II; political, economic, and social impact of the war on that nation.

304 Founding the American Republic: 1789-1815 (4)

Shaping America's political, social, and economic institutions, constitutional development and foreign policy from Federalists (Washington and Adams) through Jeffersonians.

308A Sectional Controversy: 1815-1850 (4)

P. Field. Conflicts of aristocratic and democratic (Jacksonian) elements in American society and politics; problems arising from slavery, westward expansion, industrial growth, immigration, and reform movements.

308B The Civil War and Reconstruction (4)

P. Field. Forces making for increased sectionalism in 1850s; rise of new parties; military engagements; society and institutions in North and Confederacy during wartime; attempts to restructure Southern society after the war and why they failed.

308C Foundations of Modern America: The Gilded Age, 1877-1901 (4)

P. Field. Labor unrest, nativism and anti-semitism, imperialism, government corruption, Social Darwinism, urban growth, Victorian morality, and Indian wars examined as outgrowths of efforts of American people to adapt to modernization and industrialization in late 19th century.

310A The United States in Recent Times, 1900-1920 (4)

A. Hamby, G. Lobdell. Progressive era, American imperialism, WW I, rejection of Wilsonian liberalism.

310B The United States in Recent Times, 1920-1939 (4)

A. Hamby, G. Lobdell. Temp:er and culture of 20s, Republican ascendancy and Democratic revival, Great Depression, F. D. Roosevelt and New Deal.

310C The United States in Recent Times, Since 1939 (4)

A. Hamby, G. Lobdell. Abandonment of isolation, WW II, American politics in later Roosevelt years, cold war, Truman and Fair Deal, politics and problems of 50s and 60s.

312 History of the Industrial Revolution in the United States, 1850-1917 (4)

R. Daniel. Origins of factory system, impact of Civil War, rise of heavy industry, problems of financing and control, influence of progressive era.

313 Jews in American History (4)

M. Fletcher. Examines political, economic, and religious interaction between Jews and American society. Includes Sephardic and Ashkenazic immigrants, growth of Reform and Conservative Judaism, Zionism, and modern problems of American Jews. From 1654 to present.

314 Women in American History (4)

R. Daniel. Changing view American society has taken of role women *should* play and role women *did* play. Changing opportunities for women in education and careers. Changing legal status and political rights. Women rebels and reformers.

314A Social and Cultural History of the United States, 1607-1820 (4)

R. Daniel. Role of minorities, class structure, and religion in forming American society; development of American painting, architecture, music, literature, education, and science as expressions of Puritanism, enlightenment, and nationalism.

314B Social and Cultural History of the United States, 1820-1890 (4)

R. Daniel. Role of minorities, class structure, and religion in forming American society; development of American painting, architecture, music, literature, education, and science as expressions of romanticism, Social Darwinism, and pragmatism.

314C Social and Cultural History of the United States, 1890 to Date (4)

R. Daniel. Role of minorities, class structure, and religion in forming American society; development of American painting, architecture, music, literature, education, and science as expressions of pragmatism and existentialism.

314D American Social Thought to 1815 (4)

C. Alexander. Major aspects of intellectual history of American colonies and United States to 1815, organized around 2 major themes: Puritanism, and secularization of American thought in 18th century.

314E American Social Thought, 1815-1890 (4)

C. Alexander. Major aspects of intellectual history of United States, 1815-1890, stressing rise of romantic nationalism; triumph of democratic attitude; slavery controversy; impact of Civil War and Darwinian evolution.

314F American Social Thought, 1890 to the Present (4)

C. Alexander. Major aspects of intellectual history of United States since 1890, with principal attention to continuing impact of evolutionary naturalism, especially in development of pragmatism; trends in liberal and conservative political ideologies; rise of pessimistic theology and its ramifications; modernism in arts; New Radicalism and Counter Culture.

315A History of the Black Man in America to 1865 (4)

M. Fletcher. Beginning with introduction of slavery in 1619, course deals with black person's role in America through the Civil War. Concerns slavery, abolition, and many attempts by black people to improve their position.

315B History of the Black Man in America Since 1865 (4)

M. Fletcher. Concerns Emancipation and its continuing effects on the black person in America. Life in the South, migration to the North, and conservative and radical attempts by the black community to deal with these problems.

316A History of United States Foreign Relations to 1914 (4)

J. Gaddis. United States foreign relations from war for independence to WW I, stressing development of traditional policies — isolationism, neutrality, Monroe Doctrine — and emergence of the United States as a world power.

316B History of United States Foreign Relations, 1914-1945 (4)

J. Gaddis. American foreign relations in 2 world wars and the interwar period, emphasizing shifting perceptions of vital interests involved in transition

from intervention to nonentanglement to intervention again and emergence as superpower.

316C History of United States Foreign Relations, 1945-present (4)

J. Gaddis. American foreign relations in Cold War and after, emphasizing confrontation between United States and Communist world, emergence of detente, and background of current foreign policy issues.

317A Ohio History to 1851 (4)

Ohio to 1851: prehistoric Ohio; early exploration, settlement, government; statehood and economic development; political parties, anti-slavery movement, constitutional change.

317B Ohio History Since 1851 (4)

Ohio since 1851; pre-Civil War politics, Civil War. Economic and political transition during post-Civil War. 20th century problems. Biographical sketches.

318 American Westward Movement (4)

Prereq: soph rank. Role of western frontier in American development to 1890. Explorations, Indian trade, land policies, pioneer life, traders and trappers, miners, cattlemen, railroad builders, and farmers.

320 History of the Middle West (4)

Development of political, economic, and social institutions and attitudes characteristic of Ohio and the Middle West since 1787. Includes 20th century community relationships, problems, and forms of behavior.

321A History of the Military in America: 1600 to 1898 (4)

M. Fletcher. Military institutions in American history; role of technology in warfare; innovations and reforms in the military; war and its conduct; military and civilian society in war and peace.

321B History of the Military in America: 1898 to Present (4)

M. Fletcher. Continuation of 321A. See 321A for description.

322 Latin America in the 19th Century (4)

S. Ramirez-Horton. Causes of wars for independence; institutional adjustments during and after wars; problems of regionalism and caudillism; influence of liberalism and positivism in shaping Latin American republics.

323A Latin American Survey, Colonial Period (3)

S. Ramirez-Horton. Pre-Columbian civilization; conquest and colonization; evolution of institutions; wars for independence.

323B Latin American Survey, National Period (3)

S. Ramirez-Horton. Demolition of colonial order and struggle for nationality in 19th century; 20th century reform, revolution, and development of modern nation states.

325 Inter-American Relations (3)

S. Ramirez-Horton. Diplomatic history of Latin America - U.S. relations since Independence; state-to-state relations within Latin America; Latin American participation in world wars and in international organization.

326A Recent Latin America: Argentina, Brazil and Mexico (4)

S. Ramirez-Horton. Reshaping and modernization of Mexico by revolution, and struggle to convert

Argentina and Brazilian regionalisms, divided societies, and resources into modern, urban integrated nations.

326B Recent Latin America: Andean Nations (4)

S. Ramirez-Horton. Process of modernization in Ecuador, Peru, and Bolivia since the Wars of Independence and its impact on their social and political structure.

326C Recent Latin America: Central America and the Island Republics (4)

S. Ramirez-Horton. Search for national identity and modernization in area of special interest to United States. Consideration of alternative national solution with special attention to Castro revolution and its historical background.

328 The World of Aristophanes (3)

D. Richter. Political, social, and cultural life of Athens in so-called Golden Age of ancient Greece, 5th century B.C. Special attention to Aristophanes' comedies as mirror of this period.

329A Ancient Egypt and Mesopotamia (4)

D. Richter. Prehistoric eras; origins of Mediterranean civilizations; problems of ancient chronology; civilizations of Sumerians, Babylonians, Egyptians, Assyrians, Biblical Hebrews, and Persians. Stresses archaeological and literary sources, comparative social and religious concepts, acculturation, contributions to western civilization.

329B Ancient Greece (4)

D. Richter. Aegean prehistory, Minoan civilization, Mycenaean Greeks, Dorian invasions, Greek Renaissance, growth of the polis, Athenian society and culture, Persian and Peloponnesian Wars, political history of Greece to Alexander. Stresses archaeological sources, mythology, and drama, Hellenic contributions to western civilization.

329C Ancient Rome (4)

D. Richter. Early peoples of Italy, Etruscans, constitutional development of Republic, growth of empire, civil wars, history of principate to Constantine. Stresses archaeological sources, Latin literature, Roman life and institutions, Roman contributions to western civilization.

333 Oil, Energy, and International Diplomacy (4)

G. Doxsee. Energy crisis in historical perspective. Focus on oil industry during past century with particular attention to Middle East and North Africa; economic, environmental, geological, political, and technological elements of current situation.

334 The Arab-Israel Dispute (4)

G. Doxsee. Analysis of underlying causes of Arab-Israeli confrontation from 1890s to present, including origins of Arab nationalism and Zionism, evolution of British Mandate in Palestine, Great Power involvement in Middle East, and recent developments in conflict between Israel and Arabs.

335A Survey of Middle East History to 1800 (4)

G. Doxsee. Islamic history and civilization from rise of Islam to end of 18th century. Includes discussion of role of prophet Muhammad, doctrines and institutional system of Islam, medieval Islamic caliphates and their cultural achievements, and contributions of Persians and Turks to Islamic civilization.

335B Survey of Middle East History Since 1800 (4)

G. Doxsee. History of Middle East since era of French Revolution. Disintegration of Ottoman Empire, emergence of contemporary Middle East polit-

ical system, impact of nationalism, secularism and industrialism on the region, and position of Middle East in contemporary world affairs.

336A North Africa in Modern Times (4)

G. Doxsee. The Maghrib: its geography, ethnic composition, and history since antiquity; French conquest of Algeria, Tunisia, and Morocco; administrative systems; economic development; French-Muslim relations.

336B North Africa Since 1914 (4)

G. Doxsee. Rise of nationalism; struggle for political independence; political, economic, and social problems in independent North Africa.

338 History of West Africa (4)

A. Booth. History of West Africa from early times to present; peopling of sudanic and forest regions; development of trade; Islam and rise of sudanic empires; slave trade and forest states; colonial era; independence movements; problems of nationalism.

338A History of East Africa (4)

S. Miers. History of East Africa from early times to present, with particular emphasis on period since 1750. Although neighboring countries also studied, greatest attention paid to region which comprises present-day Kenya, Uganda, and Tanzania.

341A Africa to the 17th Century (4)

S. Miers. Africa in ancient world; spread of agriculture and iron working; rise of Islam; migrations of peoples; development of states; arrival of Europeans.

341B Africa from the 17th to the Late 19th Century (4)

S. Miers. Africa in 17th century; slave trade; religious revolutions in western Sudan; development of African states; commercial revolution of the 19th century; birth of plural society in South Africa; European partition of Africa.

341C Africa from the Late 19th Century to the Present Day (4)

S. Miers. Establishment of European rule in Africa; colonial period; rise of nationalism; decolonization and independence; problems of modern Africa.

342 History of South Africa (4)

A. Booth. Ancient man; Bantu migrations; coming of Europeans; conflict between African, Boer, and Briton; rise of Zulus and Wars of Calamity; rise of colonial tensions and Boer War; the Union; rise of parties and Age of the Generals; WW I; industrial and social conflict; WW II; election of 1948 and emergence of Afrikaner nationalism; racial tensions of 1970s.

343 Revolutions in Southern Africa (4)

Historical background, and developments up to present, of revolutions in Mozambique, Angola, Zimbabwe (Rhodesia), Namibia (South West Africa), and Azania (South Africa). Format is 2 lec, 1 disc, and 1 film per wk.

344A History of Malaysia (4)

Political and cultural history of Malaysian or Indonesian peoples from 8th century A.D. through mid-20th century. Emphasizes indigenous values and institutions and how these have been modified or displaced by experience with imperialism and modernization.

344B Burma and Thailand in Modern Times (4)

Comparative study of neighboring Buddhist states,

covering selected aspects of their history. Emphasizes political and cultural tradition, their interrelations, impact of colonial period, and problems of postwar modernization.

344C History of Vietnam (4)

Assesses heritage of 1000 yrs of Chinese rule and covers development of Vietnamese state from 10th to 19th century, missionary and French colonial impact, and problems of independence since 1945.

344D Chinese in Southeast Asia (4)

D. Jordan. Historical role of this potent immigrant community in setting of Southeast Asian countries. China's imperial interests in area, tribute system, relationships between overseas Chinese, European colonialists, and indigenous peoples and role of Chinese communities in contemporary Southeast Asian politics.

345A Southeast Asia to c. 1750: The Creative Synthesis (4)

W. Frederick. Highlights of pre- and proto-history and development of classical states. Emphasis on cultural synthesis (Hindu, Buddhist, Muslim, and animist influences) and theme of change and continuity in both Great and Little traditions of region.

345B Southeast Asia, c. 1750 to 1942: Change and Conflict (4)

W. Frederick. Indigenous change and widening effects of western penetration, with emphasis on social and cultural developments. Nature of colonialism in region, and response of colonized seen in light of both traditional and modern influences.

345C Southeast Asia, 1942 to the Present: The Search for Stability (4)

W. Frederick. Japanese occupation and its relationship to great national revolutions of 1940s. Social and cultural contents of nationalism and revolt, search for new political forms, and struggle against disunity and poverty.

346A Traditional China (4)

D. Jordan. Growth and interaction of principal political, social, and economic institutions of China from prehistoric times through decline of Imperial system in 1880s.

346B Modern China (4)

D. Jordan. Weakness of empire in 1880s confronted by dynamic western economic and political imperialism; response to pressures of nationalism from without and from within; great flux in modern Chinese society and politics.

348A Traditional Japan (4)

D. Jordan. Development of Japan's early civilization, including indigenous elements and those derived from Korea and China. Political development of Japan leading to its position *vis-a-vis* western nations in 19th century.

348B Modern Japan (4)

D. Jordan. Political weakness of Tokugawa system leading to opening of Japan to western trade and restoration of emperor; favorable economic and political base which allowed Japan to enter successfully into competition with European nations; Japan's ultra-national era and postwar reconstruction.

350 The Civilization of India (4)

D. Jordan. Environmental and spiritual influences on Indian civilization; Hindu and Muslim lifestyles; successive influxes of foreign peoples and cultures; evolution of Indian traditions. Indian literature and

readings on Indian culture set in historical framework.

351 Medieval People (4)

C. Reeves. Inquiries in depth into lives and epochs of representative individuals of medieval Europe: Middle Ages through biography.

352 Medieval Civilization (4)

C. Reeves. Transmission of Christianity and classical culture to the barbarians and their work of combining the 2 into a new civilization in the early Middle Ages. Medieval civilization at its height: the Church, the schools and scholastic thought, and secular culture.

353A The Early Middle Ages (4)

C. Reeves. Foundation of medieval synthesis, 300-1100: collapse of Roman world, establishment of successor states, spread of Christianity, formation and development of European culture.

353B The Later Middle Ages (4)

C. Reeves. Maturing of medieval Europe and transition to early modern era, 1100-1450: developments in commerce, religious life and institutions, governments, politics, learning, and secular culture.

356A The Italian Renaissance (4)

P. Bebb. Major political, social, economic, and cultural currents of Italian city-states from 1150 to 1550. Focus on Dante, Petrarch, Boccaccio, Bruni, Machiavelli, Guicciardini, Michelangelo, Leonardo da Vinci, etc.

356B The Northern Renaissance (4)

P. Bebb. History of Renaissance outside Italy: politics, economics, sociology, and intellectual currents of Germany, France, Spain, Burgundy, and England from 1300 to 1600. Treated thematically, course focuses on Erasmus, More, Ximenes, Reuchlin, Hutten, Bude, etc.

356C The Reformation (4)

P. Bebb. Protestant, Catholic, and Counter-Reformations in Europe, showing their relationships to social, political, economic, and religious movements of 15th and 16th centuries. Roles of Luther, Zwingli, Calvin, Cranmer, Erasmus, Loyola, etc.; Protestant and Catholic churches and sects in western and eastern Europe.

357 Florentine People (4)

P. Bebb. Major figures in Florence from 1300 to 1600, from Dante to Galileo; concerns are with some originators of modern thought in areas of artistic theory, poetic form, Italian language, political ideas, scientific method, and historical composition.

358A Early Modern Europe, 1559-1648 (4)

D. Baxter. Europe from 1559 to 1648. Main political, economic, and social developments in Europe during Age of Spanish Preponderance: Philip II, wars of religion, Richelieu, Thirty Years' War, and ideological struggles.

358B Early Modern Europe, 1648-1715 (4)

D. Baxter. Europe from 1648 to 1715. Main political, economic, and social developments in Europe during Age of Louis XIV: French hegemony, rise of balance of power, absolutism.

358C Early Modern Europe, 1715-1774 (4)

D. Baxter. Europe from 1715-1774. Main political, economic, and social developments in Europe during Age of Louis XV: despotism, diplomatic revolution, competition for empire, Enlightenment.

362A Europe, 1814-1871 (4)

Open to jrs and srs. *L. McGeoch.* Europe from Congress of Vienna through Franco-Prussian War, including growth of liberalism and nationalism, revolutions of 1830 and 1848, Industrial Revolution, unification of Italy and Germany, social and intellectual movements.

362B Europe, 1871-1914 (4)

Open to jrs and srs. *L. McGeoch.* Development of Austria-Hungary, France, Italy, Germany, Great Britain, and Russia, including imperialism, background of WW I, and social and intellectual movements.

364A Europe Between World Wars (3)

R. Whealey. Fascism, Communism, World Depression, and Twenty-Year Armistice between 1919 and 1939.

364B Contemporary Europe (4)

C. Gustavson. Cold War, Communist bloc, European integration, decolonization, the Gaullist regime, and problems of present-day Europe.

365 Spain and Portugal Since 1898 (4)

R. Whealey. Survey of political, social, economic, diplomatic, and ideological trends.

366A Modern France in the 19th Century (4)

J. Chastain. Rise and fall of the Emperor; his impact on France and Europe; monarchist interlude; revolution of 1848 and election of Louis Napoleon; Second Empire, liberal and authoritarian; wars and transformation of Europe; fall of Napoleon and Paris Commune; Third Republic.

366B Modern France in the 20th Century (4)

J. Chastain. Dynamic and stagnant aspects; nostalgia and rejection of 20th century; impact of 20th century; democracy in France; European and colonial wars; communist movement from Popular Front to Common Program; anti-communism in France; French in a changing world; De Gaulle, his predecessors, and his successors.

368A Modern Germany in the 19th Century (4)

J. Chastain, C. Gustavson. Cosmopolitanism and movement to create national German state; rise of capitalism and decline of handicraft; liberation of German peasantry; revolution of 1848 and reaction; blood and iron chancellor; Germany's rise to European predominance; rise of worker movement; German society at turn of century.

368B Modern Germany in the 20th Century (4)

J. Chastain. Germany on the eve of WW I; military fiasco and creation of Weimar Republic; Weimar, Berlin, Munich, and Dresden; attempt to forge a democracy; Third Reich and transformation of German society; WW II and Final Solution; Communist Germany and Federal Germany: 2 societies and 2 states since 1945.

370 History of Byzantine Empire, 324-1453 (4)

W. Kaldis. Decay of Roman World and emergence of Christian empire, 324-717; medieval Roman Empire, 717-1056; weakening of central administration and apparent revival under Comneni, 1025-1204; Byzantium and neighboring world, 1204-1453; church and state; education and learning; Byzantine art; social, political, and military developments.

372A Balkans in Early Modern Period, 1453-1804 (4)

W. Kaldis. Ethnographic structure of Balkan

peoples under rule of Ottoman Empire. Ottoman institutions and society; political, social, economic, religious, and cultural developments in Balkans in 15th, 16th, 17th, and 18th centuries.

372B Balkans in 19th Century, 1804-1878 (4)

W. Kaldis. Evolution of modern Balkan nationalism and rise of Balkan states. Ottoman dissolution and Balkan revolutionary nationalism: political, social, economic, religious, and intellectual developments; domestic Balkan policy and foreign intervention.

372C Balkans in 20th Century, 1878 to Present (4)

W. Kaldis. Historical, cultural, and ethnic background of Balkan peoples. Social, economic, political, and intellectual developments in Balkans and East Europe; communization of southeast European states.

374A History of European Diplomacy, 1814-1914 (4)

Open to jrs and srs. *L. McGeoch.* Diplomatic history from Congress of Vienna to WW I, including age of Metternich, Italian and German unification, new imperialism, and prewar alliance and alignments.

374B History of International Diplomacy, 1914-1939 (3)

R. Whealey. International problems of peace and war, international organization and alliances. Theme: origins of WW II.

374C History of International Diplomacy, 1939 to Present (3)

R. Whealey. International problems of peace and war on a world-wide scale since 1939, international organization and alliances. Theme: global balance of power.

376 Biography: Leaders in 19th Century Europe (4)

Open to jrs and srs. *L. McGeoch.* Lives of great and near-great in 19th century Europe.

379 The Development of Modern Science (4)

R. Rauschenberg. Survey of development of science from Renaissance. History of physical and natural sciences in ages of Copernicus, Newton, Linnaeus, and Darwin.

382A History of Russia (3)

C. Gustavson. Russian origins, Greek, and Mongol influences, expansion of Muscovy, Ivan the Terrible, Peter the Great, Catherine the Great, Russia as a great power, and shapes of its 19th century society.

382B The Communist Revolution (3)

C. Gustavson. From tsarist Russia to Soviet Union. Background for revolution, Lenin and Trotsky, Communist Revolution of 1917, civil war and foreign intervention, consolidation of power.

382C Soviet Union (3)

C. Gustavson. Soviet Union since death of Lenin (1924). Stalinism, WW II and expansion, Khrushchev, Brezhnev. Emphasis on internal affairs.

389 Later Medieval England, 1307-1485 (4)

C. Reeves. Investigation of political, social, intellectual, ecclesiastical, and economic aspects of period of ferment and rapid change.

390A Tudor England (4)

R. Harvey. England in 16th century: Tudor absolutism, English Reformation, and major cultural and economic developments of Shakespeare's England.

390B Stuart England (4)

R. Harvey. England in 17th century: constitutional crisis of Stuart period, Republican experiment under Cromwell, and major cultural and economic developments.

391A English History to 1688 (4)

R. Rauschenberg. For English and political science majors as well as prelaw students and general students of history. Stresses institutional aspects of medieval England and social, political, and constitutional developments in Tudor and Stuart periods.

391B English History Since 1688 (4)

R. Rauschenberg. For English and political science majors as well as prelaw students and general students of history. Emphasizes cultural and economic developments, growth of British Empire, constitutional and social reforms, and impact of WW I and WW II.

392A Georgian England (4)

R. Rauschenberg. Intensive study of political, social, intellectual, cultural, and economic developments of England in years prior to and during American and French revolutions.

392B Victorian England (4)

R. Rauschenberg, D. Richter. Intensive study of England's history in 19th century, including examination of major political, cultural, and economic trends.

392C 20th Century England (4)

R. Rauschenberg. Intensive study of English history in 20th century concentrating on political, cultural, and economic developments.

394A The Medieval English Constitution (4)

C. Reeves. English government from Anglo-Saxon times to end of Middle Ages. Growth of machinery of monarchy, central administration, courts and common law. Rise of Parliament.

394B The Modern English Constitution (4)

R. Harvey. Emergence of modern English constitution during 16th and 17th centuries: creation and growth of Tudor Constitution; significance of English Reformation for constitution; Tudor Parliament; "Century of Revolution" (1603-1689) and crisis of Constitution; problems of sovereignty and obligation; constitution today.

395 History of Canada (4)

R. Rauschenberg. Introduction to Canada: study of its exploration, and development under France and England, and its emergence as important modern nation.

397T Honors Tutorial Study, European History (1-5)

Prereq: admission to Honors Tutorial College. (fall) Covers European history from Renaissance to present.

398T Honors Tutorial Study, European History (1-5)

Prereq: 397T. (winter) Independent study, European history.

399T Honors Tutorial Study, European History (1-5)

Prereq: 398T. (spring) Independent study, European history.

401A Studies in Colonial American History (4)

Prereq: 24 hrs and perm. *B. Steiner.* Literature and

source materials of colonial American history. Readings and reports.

401B Studies of the Era of the American Revolution (4)

Prereq: 24 hrs and perm. Literature and source materials of American Revolution. Readings and reports.

405 Studies in the Foundation of the American Republic, 1783-1819 (4)

Prereq: 24 hrs and perm. Literature and source materials of early national period of American history. Readings and reports.

407 Studies of the Era of Sectional Controversy: 1819-1850 (4)

Prereq: 24 hrs and perm. Literature and source materials of era of sectional controversy, 1819-1850. Readings and reports.

409 Studies in the Era of the Foundations of Modern America, 1850-1901 (4)

Prereq: 24 hrs and perm. Literature and source materials for period 1850-1901 in United States history. Readings and reports.

411 Studies in the History of the United States in Recent Times (4)

Prereq: 24 hrs and perm. A. Hamby, G. Lobdell. Literature and source materials of recent United States history. Readings and reports.

415 Studies in the Social, Cultural and Intellectual History of the United States (4)

Prereq: 24 hrs and perm. R. Daniel, C. Alexander. Literature and source materials of social, cultural, or intellectual history of United States. Readings and reports. Topic varies.

417 Studies in the History of American Foreign Relations (4)

Prereq: 24 hrs and perm. Literature and source materials of American foreign relations. Readings and reports.

421 Studies in Regional History (4)

Prereq: 24 hrs and perm. Literature and source materials of United States regional history. Readings and reports.

423 Studies in Latin American History, 1750-1880 (4)

Prereq: perm. Literature and source material of Latin American history, 1750-1880. Readings and reports.

427 Studies in Recent Latin American History (4)

Prereq: perm. Literature and source materials of recent Latin American history. Readings and reports.

429 Studies in the History of Ancient Greece (4, max 8)

Prereq: 24 hrs and perm. D. Richter. Literature and source material of ancient Greek civilization. Readings and research paper. Themes vary from qtr to qtr. May be repeated for credit.

435 Studies in Middle East History (4)

Prereq: 24 hrs and perm. G. Doxsee. Literature and source materials on Middle East since 1914. Readings and reports.

441 Studies in African History (4)

Prereq: 24 hrs and perm. A. Booth, G. Doxsee, S. Miers. Literature and source materials of African history. Readings and reports.

445 Studies in the History of Southeast Asia (4)

Prereq: two 300- or 400-level courses in social sciences or humanities dealing with Asia. Literature of Southeast Asian history and culture generally, with particular emphasis on selected developments in 19th and 20th centuries. Readings and reports.

449 Studies in the History of East Asia in Modern Times (4)

Prereq: two 300- or 400-level courses in social sciences or humanities dealing with Asia. D. Jordan. Historical literature relating to process of modernization of China and Japan from 1860s to 1960s. Readings and reports.

461 Proseminar in French Revolution (4)

Prereq: 24 hrs and perm. C. Gustavson. Oral reports and class discussion. Myth and reality of revolution. Study of ideas, episodes, and individuals in the French Revolution.

463 Studies in 19th Century Europe (4)

Prereq: 24 hrs and perm. L. McGeoch. Literature and source material of 19th century Europe. Readings and reports.

467 Studies in Modern France (4)

Prereq: 24 hrs and perm. J. Chastain. Literature and source material of modern France. Readings and reports.

483 Studies in Russian and Soviet History (4)

Prereq: 24 hrs and perm. C. Gustavson. Literature and source material of Russian and Soviet history. Readings and reports.

491 Studies in Early Modern English History (4)

Prereq: 24 hrs plus perm. R. Harvey. Studies in early modern English history from multi-disciplinary perspectives.

493 Studies in British History Since 1714 (4)

Prereq: 24 hrs and perm. R. Rauschenberg. Literature and source material of British history since 1714. Readings and reports.

496 Quantitative Methods in History (4)

P. Field. Introduction to descriptive and inductive statistical techniques used in historical research and analysis of current literature employing such techniques. Instruction in use of computer.

497T Advanced Honors Tutorial Study (1-5)

Prereq: 299T, 399T. (fall) Independent study, advanced level.

498 Problems in History (1-5, max 9)

Prereq: 24 hrs, perm. Intensive individual work either in research or individual systematic reading along lines of student's special interest and under supervision of staff member.

498T Advanced Honors Tutorial Study (1-5)

Prereq: 497T. (winter) Independent study, advanced level.

499 Honors Studies of Selected Historical Topics (1-5, max 15)

Prereq: perm. Study, reading, research, and writing on selected topic; intended for students who plan to graduate with honors in history. Arrangements should be made during jr yr.

499T Advanced Honors Tutorial Study (1-5)

Prereq: 498T. (spring) Independent study, advanced level.

HOME ECONOMICS

GENERAL HOME ECONOMICS

CONSUMER SERVICE AND EDUCATION

Consumer Service
Education

HUMAN DEVELOPMENT AND FAMILY ECOLOGY

HUMAN ENVIRONMENT AND DESIGN

Furnishings and Design
Textiles and Clothing

HUMAN NUTRITION AND FOOD SCIENCE

GENERAL HOME ECONOMICS

101 Professional Awareness (2)

Personal and professional awareness with emphasis on home economics career opportunities. Specialists in each field assist staff.

459 Home Economics Seminar, Workshop and Short Course in International Service (2-4)

Prereq: jr rank, perm. Special seminar or workshop for international students or for home economics majors who want to prepare for international service. Lec, lab, and field trips.

479A Workshop in Home Economics (2-6)

Prereq: teaching experience or perm. Special workshops for in-service training of home economics teachers. 479A — home economics education.

479B Workshop in Home Economics (2-6)

Prereq: teaching experience or perm. Continuation of series beginning with 479A. See 479A for general description. 479B — clothing and textiles.

479C Workshop in Home Economics (2-6)

Prereq: teaching experience or perm. Continuation of series beginning with 479A. See 479A for general description. 479C — foods and nutrition.

479D Workshop in Home Economics (2-6)

Prereq: teaching experience or perm. Continuation of series beginning with 479A. See 479A for general description. 479D — child development.

479E Workshop in Home Economics (2-6)

Prereq: teaching experience or perm. Continuation of series beginning with 479A. See 479A for general description. 479E — consumer economics.

479F Workshop in Home Economics (2-6)

Prereq: teaching experience or perm. Continuation of series beginning with 479A. See 479A for general description. 479F — home furnishings.

479G Workshop in Home Economics (2-6)

Prereq: teaching experience or perm. Continuation of series beginning with 479A. See 479A for general description. 479G — home management.

479H Workshop in Home Economics (2-6)

Prereq: teaching experience or perm. Continuation of series beginning with 479A. See 479A for general description. 479H — household equipment.

479I Workshop in Home Economics (2-6)

Prereq: teaching experience or perm. Continuation of series beginning with 479A. See 479A for general description. 479I — school lunch management.

479J Workshop in Home Economics (2-6)

Prereq: teaching experience or perm. Continuation of series beginning with 479A. See 479A for general description. 479J — family life education.

490A Independent Study (2-5, max 15)

Prereq: perm. Independent study, advanced level under direction of faculty member in area of specialization. 490A — consumer service and education.

490B Independent Study (2-5, max 15)

Prereq: perm. Continuation of series beginning with 490A. See 490A for general description. 490B — human development and family ecology.

490C Independent Study (2-5, max 15)

Prereq: perm. Continuation of series beginning with 490A. See 490A for general description. 490C — human environment and design.

490D Independent Study (2-5, max 15)

Prereq: perm. Continuation of series beginning with 490A. See 490A for general description. 490D — human nutrition and food science.

491A Seminar or Short Course in Home Economics (2-4)

Prereq: perm of dept chairman. Recent developments in any of following areas. 491A — child development and family life.

491B Seminar or Short Course in Home Economics (2-4)

Prereq: perm of dept chairman. Continuation of series beginning with 491A. See 491A for general description. 491B — foods and nutrition.

491C Seminar or Short Course in Home Economics (2-4)

Prereq: perm of dept chairman. Continuation of series beginning with 491A. See 491A for general description. 491C — home economics education.

491D Seminar or Short Course in Home Economics (2-4)

Prereq: perm of dept chairman. Continuation of series beginning with 491A. See 491A for general description. 491D — housing and management.

491E Seminar or Short Course in Home Economics (2-4)

Prereq: perm of dept chairman. Continuation of series beginning with 491A. See 491A for general description. 491E — textiles and clothing.

491F Seminar or Short Course in Home Economics (2-4)

Prereq: perm of dept chairman. Continuation of series beginning with 491A. See 491A for general description. 491F — research.

CONSUMER SERVICE AND EDUCATION

Consumer Service

390 Family Consumer Economics (3)

J. Varner. Management of personal and family financial problems. Emphasis on the consumer's role in the economy.

391 Equipment (2-4)

Prereq: 390. (fall, spring) Selection and use of household equipment including materials, construction, operation, and care. 4 lec, 2 lab.

395 Home Management (3)

Prereq: soph rank. *J. Varner.* Decision-making applied to use of family resources with purpose of creating family environment in which optimum human development will occur. 3 lec.

396 Home Management Laboratory (4)

Prereq: soph rank. *J. Varner.* Principles of decision-making and management in group living situation. Home Management House experience provided.

400 Senior Seminar (1-3)

Prereq: concurrent with 499B. *S. Slater.* Provides opportunity to share ideas and assess oneself in relation to personal and professional growth before exiting program as professional home economist.

439 Studies in Household Equipment and/or Management (2-4, max 6)

Prereq: 391, 395. Provides opportunity for student to pursue study in selected area of home management and/or household equipment, under supervision.

492 Household Equipment Techniques (3)

Prereq: 391. *J. Matthews.* Critical analysis of home equipment relative to durability and effective use. 1 lec, 4 lab.

499A Field Work in Home Economics — Extension and/or Business (5-12)

Prereq: 18 hrs, sr rank, perm. On-the-job training through cooperation with business organizations, department stores, radio and television stations, and Home Economics Extension Department of Ohio State University.

499B Field Work in Home Economics — Job Training (5-12)

On-the-job training in area of specialization. Taken concurrently with HECE 400.

Education

299 Sophomore Practicum — Professional Assessment (2-5)

Prereq: soph rank, perm. *J. Varner.* Provides professional experience for sophs who have declared majors in consumer service and education. Lab experience, seminar sessions, and performance assessment provide opportunity to assess professional competence at this level.

340 Teaching of Home Economics (2-4)

Prereq: jr rank. *S. Mumford.* Home economics programs at jr and sr high school level. Special emphasis given to vocational education, curriculum development, and evaluation procedures.

341 Job Training Methods (4)

Prereq: 24 hrs of home economics. Evaluation and assessment methods and techniques in relation to process and products in home economics programs and professions.

399 Junior Practicum — Professional Development (2-5)

Prereq: jr rank, perm. *J. Varner.* Lab experiences with school and community agencies. Competency assessment at jr level.

441 Evaluation in Home Economics (3)

Prereq: 24 hrs of home economics. Evaluation and assessment methods and techniques in relation to process and products in home economics programs and professions.

442 Home Economics Education Practicum (2-4, max 8)

Prereq: sr rank. *S. Slater.* Concentrated study in area of interest such as adult programs, special education programs, job training experience; work with handicapped people.

443 Vocational Home Economics (4)

Prereq: 340 or teaching experience in home economics. (summer) *S. Slater.* History and philosophy of vocational homemaking education. Contemporary trends, methods, sources of materials, and evaluation. Observation arranged.

444 Home Economics in Adult Education (4)

Prereq: 26 hrs. (winter) *J. Varner.* Organization procedures, curriculum materials, and methods of conducting adult education groups in field of education for family living.

445 Current Developments in Home Economics Education (4)

Prereq: 340 or 443. (summer) *S. Slater.* Current trends and developments in home economics education programs at secondary and post high school levels in relation to curricular developments, evaluation procedures, legislation affecting program, and research.

450 Problems in Teaching Home Economics (2-4, max 6)

Prereq: 26 hrs. *S. Slater.* Individual problems in teaching.

HUMAN DEVELOPMENT AND FAMILY ECOLOGY

160 Introduction to Child Development (4)

J. Harlan. Fundamental patterns of development and behavior during prenatal period through adolescence. Directed observations of children in nursery school setting by closed circuit television, infants in infant lab, and youth in selected adult-child community activities. 4 lec, 1 lab. No credit awarded if EdEl 200 or Psy 173 has been taken.

299 Sophomore Practicum — Professional Assessment (2-5)

Prereq: soph rank, perm. Provides professional experience for sophs who have declared majors in human development and family ecology. Seminar sessions and performance assessment provide opportunity to assess professional competence at this level.

360 Human Sexuality (3)

E. Stricklin. Exploration of effect of one's own

human sexuality on aspects of one's ability to form relationships which are integrative, creative, and recreative. Emphasis is placed on realization of one's own dynamic potential in wholeness of life pattern and in relationships, in light of scientific research.

361 Principles of Preschool Guidance (4)

Prereq: 160 or equiv, perm. *J. Nehls*. Application of theories and principles of preschool guidance by directed observation of adult-child interactions, and supervised participation in early childhood education programs. 2 lec, 3 lab.

363 Creative Experiences with Preschool Children (4)

Prereq: 361. *A. Lockard*. Selection, preparation, presentation, and evaluation of activities and materials in art, music, language, psychosocial, and physical development for early childhood programs. 3 lec, 3 lab.

364 Premath and Science with Young Children (2-4)

Prereq: 361, Bot 101 or Zool 101. *A. Lockard*. Examples of early childhood programs, primary elements and issues that differentiate them. Selection, preparation, presentation, and evaluation of premath and science activities and materials. 3 lec, 3 lab.

365 Infant Education (4)

Prereq: HECF 160, 361. *J. Nehls*. Knowledge of ways in which children from birth to 3 yrs learn; opportunity to structure environment to foster social, emotional, cognitive, and physical development of infant, as well as understanding of issues and trends in infant education.

370 Family Living (3)

E. Stricklin. Person-centered analysis of basic human relationship processes leading to successful modern American marriage and family experience. Special discussion and analysis of problems in beginning family stage. Not open to fr. 3 lec.

371 Family Development (3)

Prereq: 5 hr general psychology. *E. Stricklin*. Synthesis of the essential concepts useful in comprehending families in the light of the developmental concept for family analysis from marriage through the subsequent stages of the family life cycle. 3 lec.

399 Junior Practicum — Professional Development (2-5)

Prereq: jr rank, perm. Provides student with practical field-based experience in professional areas. Competency assessment made at jr level.

400 Senior Seminar (1-3)

Prereq: concurrent with 499, 464, or SW 498. Provides opportunity for comprehensive assessment in relation to personal and professional growth prior to exiting program as professional in human development and family ecology.

462A Pluralistic Life Styles (2)

Prereq: jr or sr rank or perm. *A. Lockard, E. Stricklin*. Analysis of emerging pluralistic marriage and family life patterns in American society.

462B Parenthood (2)

Prereq: jr or sr rank, perm. *A. Lockard, E. Stricklin*. Analysis of dynamics of parenthood.

462C Middle Childhood (2)

Prereq: jr or sr rank, perm. *A. Lockard, E. Stricklin*.

Interpretation of developmental tasks of middle childhood years as they reflect and influence family guidance and transmission of values.

462D The One-Parent Family (2)

Prereq: jr or sr rank or perm. *A. Lockard, E. Stricklin*. Analysis of dynamics of one-parent family in light of its needs, challenges, and distinctive characteristics.

462E Youth Identity Crisis (2)

Prereq: jr or sr rank, perm. *A. Lockard, E. Stricklin*. Analysis of identity crisis in terms of its psychosocial aspects of adolescence.

462F The Aged Family (2)

Prereq: jr or sr rank or perm. *A. Lockard, E. Stricklin*. Synthesis of multiple dimensions of the aged family.

463 Preschool Administration (5)

Prereq: 363. (spring) *J. Nehls*. History, philosophy, and objectives of preschool education including current trends. Problems in organizing and administering preschools, play groups, and Head Start programs with emphasis on housing, staff, schedules, and financing. Field trips to selected programs. 4 lec.

464 Early Childhood Practicum (6-12)

J. Nehls. Lab experience in planning, guiding, supervising, and evaluating preschool children's growth and behavior in all phases of early childhood education programs. 1 lec, 20 lab.

465 Parent Education (4)

Prereq: HECF 160. Philosophy, techniques, materials, and methods used in working with parents. Opportunities for observation and participation with parent groups, parent conferences, and home visitations.

467 Theories of Child Development (4)

Prereq: jr or sr rank, perm. *A. Lockard*. Review of theories of child development with synthesis approach for student in early childhood education programs.

471 Family Life Education (4)

Prereq: perm. (winter) *E. Stricklin*. History, philosophy, and objectives of family life education, including current trends. Selected fundamental educational problems explored. Examination of various dimensions of teacher's role and critical appraisal of student's professional competency to teach classes in family life education.

472 Special Studies in Human Development (2-5)

Prereq: HECF 462/562. *J. Nehls*. In-depth study in selected area.

479 Special Studies in Family Ecology (2-5)

Prereq: HECF 462/562. *E. Stricklin*. In-depth study in selected area.

499 Field Experience in Human Development and Family Ecology (5-12)

Prereq: 18 hrs, sr rank, perm. On-the-job training through cooperation with social, welfare or community agencies, hospitals, early childhood programs, and Merrill-Palmer Institute.

HUMAN ENVIRONMENT AND DESIGN

Furnishings and Design

180 Furnishing Today's Home (3)

E. Langford, J. Matthews. Practical and esthetic study of home furnishings, including basic art qualities, studies in color and design, materials used in furnishings, selection, and arrangement of furniture and accessories.

280 Interior Design Studio I (5)

Prereq: EG 105, HEID 180. *R. Rainsford.* Space relationships, color for interiors, and ergonomics. Lab experiences include color, shadow, and texture rendering.

281 Interior Design Studio II (5)

R. Rainsford. Planning, designing, and specification of materials and furnishings for residential spaces. Lab experiences include executing plans, elevations, sample boards, cost estimates, rationales, and oral presentations.

282 Interior Design Studio III (5)

R. Rainsford. Investigation and design of low-cost residential spaces. Emphasis given to furnishings that can be made by individual by simple, inexpensive methods.

299 Sophomore Practicum — Professional Assessment (2-5)

Prereq: soph rank, perm. In-depth study of field of interior design concentrating on career responsibilities and opportunities. Mini-experiences related to type of interior design practice included to give students opportunity to assess their capabilities for meeting entry-level competencies as professionals. Assessment of student's portfolio.

384 Family Housing (3)

Prereq: 180 and art or design. (fall, winter) *E. Langford.* Housing needs of family and factors influencing housing. Evaluation and designing of floor plans for effective use of space in home.

385 Home Furnishings Workshop (4)

Prereq: 113, 180 or 6 hrs art, perm. *E. Langford.* Lab problems in advanced techniques in home furnishings, including upholstering, refinishing furniture.

399 Junior Practicum — Professional Development (2-5)

Prereq: jr rank, perm. *R. Rainsford.* Professional development and assessment through interviews with personnel in field, field trips, and investigation of business practices and procedures.

400 Senior Seminar — Professional Evaluation (1-3)

Prereq: concurrently with 499. Provides opportunity for students to demonstrate personal growth by sharing experiences in verbal and written form to staff and fellow students.

480 History of Furniture (3-4)

Prereq: 180 and art or design, perm. (fall, winter) *E. Langford.* Qualities and styles of furniture and furnishings. Emphasis on periods of the past and their esthetic influence on the present.

481 Contemporary Design in Furnishings (3)

Prereq: 480, 6 hrs of art or perm. (spring) *E. Langford.* Furnishings and interiors of present era; factors that have influenced development of con-

temporary design; important designers and their work.

482 Design in Home Accessories (3)

Prereq: 480, 6 hrs of art or perm. (winter) *J. Matthews.* Investigation of development of design in accessories of glass, ceramics, textiles, Oriental rugs, metals such as silver and pewter. Use of accessories in home and in displays.

483 Advanced Interior Design Studio I (5)

Prereq: HEID 282. (fall) *R. Rainsford.* Investigation, design, and specification of materials and furnishings for motels and restaurants. Experiences include executing plans, elevations, and perspectives; cost estimates, rationales, and oral presentations.

484 Advanced Interior Design Studio II (5)

Prereq: HEID 483. (winter) *R. Rainsford.* Investigation, design, and specification of materials and furnishings for offices. Office design will range from single-occupancy office, to large multi-purpose office space, including concept of office landscaping. Lab experiences include executing plans, elevations, perspectives, cost estimates, rationales, and oral presentations.

485 Advanced Interior Design Studio III (5)

Prereq: HEID 484. (spring) *R. Rainsford.* Investigation, design, and specification of materials and furnishings for institutions. Lab experiences include executing plans, elevations, perspectives, cost estimates, rationales, and oral presentations.

499 Field Work — Interior Design (5-12)

Prereq: 18 hrs, sr rank, perm. On-the-job training through cooperation with residential and contract firms for interior design majors. Concurrently with HEID 400.

Textiles and Clothing

113 Design Analysis: Theory and Principles (5)

E. Goldsberry, Staff. Fundamental principles as applied to understanding use and fit of commercial pattern, and apparel construction. Emphasis on scientific thought, creative expression, and construction problems. 2 lec, 6 lab.

299 Sophomore Practicum — Professional Assessment (2-5)

Prereq: soph rank, perm. In-depth study of field of textiles and clothing, concentrating on career responsibilities and opportunities, language of fashion and importance and technique of developing professional portfolio. Mini-experiences related to chosen option included which will give students opportunity to assess their capabilities for meeting entry-level competencies as professionals.

312 Studies in Clothing and Textiles (2-4, max 8)

Prereq: perm. Selected topic in clothing and textiles.

313 Design Analysis: Experimental (2-4)

Prereq: HETC 113. *Staff.* Problems and construction techniques in handling fashion fabrics. Creative expression through experimenting with fashion fabrics.

315 Elementary Textiles (4)

M. Doxsee. Emphasis on textile yarns, fabrics, and finishes with reference to production, processing use, and care. 4 lec, 1 lab.

316 Design Analysis: Tailoring (4)

Prereq: 113. *Staff*. Advanced problems with emphasis on couture tailoring techniques related to apparel construction. 2 lec, 4 lab.

317 Textiles and Dress and the Environment (3)

Prereq: Psy 101 or Soc 101. *M. Doxsee*. Contemporary uses and roles of textiles and clothing as affected by economics, social, and psychological forces seen in historic perspective.

318 Fashion Merchandising — Promotion (4)

Prereq: 113, 315, Jour 250 or perm. *E. Goldsberry*. Factors which influence merchandising of fashion goods. Processes involved in planning, promoting, displaying, buying, and selling fashion merchandise. 4 lec.

399 Junior Practicum — Professional Development (2-5)

Prereq: jr rank, perm. Professional development and assessment through interviews with personnel in field, field trips, and mini-professional experiences.

400 Senior Seminar — Professional Evaluation (1-3)

Prereq: concurrently with 499. Provides opportunity for students to demonstrate personal and professional growth by sharing experiences in verbal and written form to staff and fellow students.

405A History of Costume (3)

M. Doxsee. Costume through ages as reflection of historical period and source for present-day design.

405B History of Textiles (2)

M. Doxsee. Textiles through ages as reflective of historical period and source for present-day design.

407 Textile and Fashion Industry (4)

Prereq: 315 and Jour 250. (winter) *M. Doxsee*. Economic factors influencing textile and fashion industry treated in depth. 4 lec.

415 Design Analysis: Flat Pattern (4)

Prereq: 113, 315 or perm. *E. Goldsberry*. Creative apparel design and interpretation with emphasis on medium of flat pattern.

416 Design Analysis: Draping (4)

Prereq: 113, 313, 415, or perm. *E. Goldsberry*. Designing of apparel using draping techniques. Emphasis on fabric as medium rather than pattern development in design process.

417 Fashion Merchandising — Management (3)

Prereq: 313, 407, computer science. *E. Goldsberry*. In-depth study of use and application of retail merchandising buying principles.

418 Quality Control (4)

Prereq: Chem 123, HETC 315 or perm. *M. Doxsee*. Principles, techniques, and standard testing methods of quality control for textiles, clothing, and interior design. Laboratory sessions will emphasize standard textile testing procedures and research methods. Federal and state laws and codes designed to protect consumer also discussed.

419 Studies in Textile Testing (3)

Prereq: perm. *M. Doxsee*. Individual research and laboratory testing of problems in advanced textiles.

499 Field Experience — Textiles and Clothing (4-12)

Prereq: 18 hrs, sr rank, perm. On-the-job experience

through cooperation with industry and/or retail establishments. For merchandising majors.

HUMAN NUTRITION AND FOOD SCIENCE**120 Meal Management (3)**

M. Lewis, A. Wade. Principles of food preparation and nutrition emphasizing use of time, energy, and resources in management of meals. 2 lec, 2 lab.

128 Introduction to Nutrition (4)

B. Sullivan, A. Wade. Relation of foods and nutrition to growth, development, and maintenance of health. Development of good food habits for children and adults.

222 Food Science and Principles (4)

Prereq: 120. *M. Lewis, A. Wade*. Scientific principles applied to selection, storage and preparation of foods. 3 lec, 2 lab.

232 Infant and Child Nutrition (4)

Prereq: 160 or equiv. (fall) *A. Wade*. Dietary factors related to nutritional status in pregnancy, infancy, preschool, and school-age children. Contribution of nutrition education and school lunch program in school curriculum. 3 lec, 2 lab.

299 Sophomore Practicum — Professional Assessment (2-5)

Prereq: 120, 128, HEG 101, Eng Composition, InCo 101/103. Professional experiences for sophs who have declared majors in area of human nutrition and food science and to provide opportunity for assessment of each student's competencies in area at this level.

321 Creative Cookery and Food Styling (3)

Prereq: 120, 222, psychology, and art. (fall) *M. Lewis*. Intensive study of elements of color, design, flavor and texture of food products and styles of cookery. 1 lec, 4 lab.

325 Food and the Consumer (3)

Prereq: Econ 101/301. *M. Lewis*. Role of government and consumer organizations in consumer protection and consumer's responsibilities in obtaining and consuming safe food. Factors influencing amount of food and nutritive value of foods purchased investigated.

334 Quantity Food Production (4)

Prereq: 128, 222. *M. Lewis*. Food preparation principles applied to large quantity food production and service in institutions. Experience in residence halls. 2 lec, 4 lab.

399 Junior Practicum — Professional Development (2-5)

Prereq: foods and nutrition major, sr rank. Practicum in human nutrition and food science. Work with community agency, utility company, University food service, or other specialized food-related company in immediate area.

400 Senior Seminar (1-3)

Prereq: foods and nutrition major, sr rank, perm. Provides opportunity for students to demonstrate their personal and professional growth by sharing experiences in verbal and written form with staff and fellow students. Taken concurrently or following HEFN 499 — Field Experience

422 Experimental Foods (4)

Prereq: 222 or equiv and organic chemistry. (spring) *M. Lewis*. Factors which affect results obtained from food processes. Experimental work under controlled conditions. 3 lec, 2 lab.

423 Food Preservation (4)

Prereq: 128, 222, microbiology. (winter) *M. Lewis*. Food preservation, factors affecting palatability and nutritive value of foods, taste panels, preference surveys, elements of the food industry. 2 lec, 2 lab.

425 Teaching of Foods and Nutrition (3)

Prereq: sr rank and perm. (fall) *M. Lewis*. Organization of materials and methods of presenting principles of food preparation and nutrition. For majors in foods and nutrition. 1 lec, 4 lab.

426 World View of Nutrition (3)

Prereq: 128, sociology, or anthropology. (winter) Survey of world food situation with consideration of environmental, cultural, government, and economic factors that relate to food production and consumption. Evaluation of these patterns in meeting dietary needs.

427 Studies in Foods and Nutrition (2-4)

Prereq: perm. Directed studies in some aspect of foods and/or nutrition: topics selected by students with approval of staff member, frequent conferences.

428 Advanced Nutrition (4)

Prereq: biochemistry and physiology or concurrent. (fall) *B. Sullivan*. Biochemical and physiological processes in nourishment of body. Determination of nutrient needs and evaluation of nutritional status. Animal feeding experiments. 4 lec, lab arranged.

429 Community Nutrition (3)

Prereq: 128, psychology and sociology. (spring) *B. Sullivan*. Nutrition needs and practices in agencies serving community such as social welfare, home economics extension, public health, and school lunch. Nutrition work with low-income families. Involves some field work. 2 lec, 2 lab.

430 Therapeutic Nutrition (4)

Prereq: 418, biochemistry. *B. Sullivan*. Use of dietary modification in prevention and treatment of disease. Problems in planning therapeutic diets and counseling patients. 4 lec, lab arranged.

431 Studies of Science of Nutrition (3-4, max 8)

Prereq: 428 and Zool 363. Nutrition as related to physiological and metabolic processes. Review and critical analysis of research in field. 2 lec, 3 lab.

437 Food Service Systems I (4)

Prereq: HEFN 299, 334, Mgt 300. Introduction to tools and functions of management in food service with emphasis on organization structure, menu planning, staffing, work methods, human relations skills, sanitation, and safety. 4 lec, lab arranged.

438 Food Service Systems II (4)

Prereq: HEFN 437, 499, HECE 391. Institutional food purchasing, kitchen layout design, equipment selection, and cost control. 4 lec, lab arranged.

499 Field Experience — Foods and Nutrition (5-12)

Prereq: sr rank, perm. On-the-job training through cooperation with hospitals, community agencies, business organizations, and radio/television stations.

HUMAN SERVICES TECHNOLOGY

The following courses for the AAS program in human services technology are available only on the Chillicothe campus.

This program is currently under revision. Check with the regional campus program director for up-to-date information.

101 Principles of Behavior (5)

Discussion of basic principles of animal and human behavior with emphasis on operant and respondent conditioning. Laboratory designed to demonstrate these principles.

102 Introduction to Human Services Technology (3)

Comprehensive introduction to knowledge and skills required for successful human services work. Coverage includes history and issues in human services, philosophical models, methods of service delivery, professional roles, and others.

110 Human Services Agencies (3)

Prereq: 102. Introduction to various human service agencies and institutions located in Chillicothe area. Students will interact with professional staff from each agency and be familiarized with philosophies, methods, and objectives of each agency.

125 Psychological Assessment (4)

Prereq: Psy 101. Introduction to psychological testing and basic statistical concepts necessary to interpretation of test scores. Students will have limited experience in administration, construction, and scoring of psychological tests to familiarize them with value and limitations of each instrument.

150 Behavior Management I (3)

Prereq: 101. Examines procedural considerations in applying behavior management techniques including, among others, behavioral objectives, evaluative techniques, and applied research design.

151 Behavior Management II (4)

Prereq: 150. Discussion and laboratory demonstrations of application of operant model to human behavior. Complex schedules of reinforcement, interpersonal contingencies, and applied systems approaches described. General applications of model also examined.

152 Behavior Management III (4)

Prereq: 151. Continuation of 151 with emphasis on specific behavior management techniques and problems associated with implementation of behavior management approaches. Discussion of ethical considerations in application of behavior management procedures.

170 Group Dynamics I (4)

Prereq: 102 and perm. Explores theories and issues current in group dynamics. Provides exercises to demonstrate applications of various theoretical positions. Also discusses methods for implementing groups and outcome evaluation.

171 Group Dynamics II (3)

Prereq: 170. Continuation of 170 with emphasis on participation in variety of exercises. Students involved both as participants and group leaders. Evaluated on their ability to effectively implement, guide, and evaluate groups they facilitate.

200 Personal Management (3)

Prereq: 102. Examines management of one's own behavior and positive relationship with others in social context. Emphasis on empathy and understanding through literature and other modes of communication.

210 Practicum I (2)

Prereq: 110. Each student will participate in selection of an area agency or institution in which to gain more intensive experiences. Students will familiarize themselves with several facets of the agency under close professional supervision.

211 Practicum Seminar I (1)

Opportunity for group discussion of special topics and problems related to student practicum experiences and professional development. Enrollment concurrent with HST 210.

220 Practicum II (2)

Prereq: 171 and 210. Students provided opportunity to work in specific programs within agency or institution selected in 210. Individuals expected to function as closely as possible, under supervision, to professional role they will undertake upon completion of program.

222 Practicum Seminar II (1)

Opportunity for group discussion of special topics and problems related to student practicum experiences and professional development. Enrollment concurrent with HST 220.

250 Practicum III (2)

Prereq: 220. Continuation of 220 with emphasis on application of skills developed in program curriculum.

255 Practicum Seminar III (1)

Opportunity for group discussion of special topics and problems related to student practicum experiences and professional development. Enrollment concurrent with HST 250.

275 Community Resources (3)

Prereq: perm. Topics include sources of funding, organizational structures, funding review process, and others. Emphasis given to actual preparation and writing of intra- and extra-organizational proposals and grants.

290 Special Problems (1-10, repeatable)

Prereq: perm. Provides opportunity for students to explore topics of interest on individual basis, or in structured courses developed as common interests arise. Additionally, credits may be awarded for advanced practicum experiences.

INDONESIAN

See Foreign Languages and Literatures.

INDUSTRIAL HYGIENE

The industrial hygiene program prepares individuals devoted to the recognition, evaluation, and control of those environmental factors or hazards arising in or from the workplace which may cause sickness, impaired health and well-being, or signifi-

cant discomfort among workers.

Industrial hygienists are health professionals concerned with how noise, dust, vapors, and other hazards common to the workplace affect workers' health.

Graduates of the program may be employed directly by private laboratories, industrial firms, insurance companies, or governmental agencies or they may enter graduate programs in industrial hygiene, public health, or other health related disciplines.

The curriculum is designed to provide a broad-based program within the College of Arts and Sciences and College of Engineering leading to a bachelor of science degree.

The student must complete the Arts and Sciences degree requirements for the bachelor of science degree and the industrial hygiene program requirements, consisting of IH 200, 400, and 401; CHEM 141, 142, 143, 301, 302, 303, 330, 351, 476, 483, 485, and 489; ISE 231, 304, 333, 336, 422, 448 and 451; ET 100 and 331; EG 101; ME 400; ZOOL 150, 300, 345, 411 and 418; MATH 263A, B, and C; PHYS 251, 252 and 253; ENG 172 and 305; ECON 101; MGT 200; BLAW 370; and PSY 101.

The math, physics, English, economics, and psychology courses will apply to the Arts and Sciences degree requirements.

Students interested in the program should consult the Director, Industrial Hygiene Program, Chemistry Department, for advising and schedule planning.

200 Introduction to Industrial Hygiene and Occupational Safety and Health (1)

Prereq: industrial hygiene major or perm. (spring) Introduction to occupational safety and health and industrial hygiene including historical developments, health and safety program concepts, social and legislative requirements, professional relationships, and general introduction to concepts of recognition, evaluation, and control of exposures. 1 lec.

400 Industrial Hygiene Air Sampling (3)

Prereq: jr rank in industrial hygiene or perm. (spring) Lectures and laboratories to introduce field sampling and laboratory instrumentation and analysis methods common to industrial hygiene. Students required to interpret readings, analyze samples, and prepare appropriate reports. 2 lec, 3 lab.

401 Hazardous and Flammable Materials for Industrial Hygiene (3)

Prereq: jr rank in industrial hygiene or perm. (spring) Lectures on gases, vapors, dusts, liquids, and solids and their physical and chemical characteristics; flammables, fire retardants, and fire resistant materials. Emphasis on sampling, evaluation, and control methods. Design of fire resistant facilities considered. Technical reports required, including design requirements as specified by regulatory agencies. 3 lec.

INDUSTRIAL TECHNOLOGY

The requirements for an industrial arts major in the program leading to a BS in education degree are outlined in the *College of Education* section of the catalog. The program outline for a BS in industrial technology degree is described in the *College of Engineering and Technology* section. A teaching option is available under industrial technology.

80 Driver Education (2)

For novice drivers. Credit and points not counted toward degree. 2 lec, 2 lab. Fee \$25.

101 Engineering Drawing (3)

Beginning course for students of engineering and technology and related fields; basic techniques, processes and standards, multiview drawing, freehand drafting, fundamentals of dimensioning, section views and sectional assemblies. 5 lec.

102 Engineering Drawing (3)

Prereq: 101. Basic engineering drawing: pictorial drawing, freehand drawing, developments and intersections, dimensioning, working drawings, elementary design problems. 5 lec.

104 Architectural Drawing (5)

Provides students an opportunity to learn basic techniques used in architectural drawing such as use of instruments, orthographic projection, floor plans, elevations, sections.

105 Architectural Drawing (5)

Prereq: 104 or perm. Continuation of 104, providing students with an opportunity to learn pictorial drawing techniques such as isometric drawing, perspective drawing, and rendering techniques.

109 Crafts (2)

Working with leather, art metal, enameling, and plastics. Open to any student. 4 lab.

115 Metal Fabrication (4)

Production practice, including cutting, forming, and joining of metals. 1 lec, 6 lab.

117 Engineering Metals (3)

Prereq: engineering major. Practice directed toward learning capability of various metal cutting, forming, and joining machines. 1 lec, 4 lab.

121 Descriptive Geometry (3)

Prereq: 101 or perm. Graphical solutions of problems relating to points, lines, planes, and solids. Space visualization pertaining to intersections of planes and solids. Exercise sheets and practical applications. 5 lec.

122 Nomography (2)

Prereq: 3 yrs h.s. math or perm. Fundamentals of using conversion scales, alignment diagrams, and proportional charts in graphical solution of equations. 3 lec.

200 Home Mechanics (1-6)

Simple household maintenance and repair.

201 Computer Graphics (3)

Prereq: soph, FORTRAN. Introduction to development of and present-day applications of computer graphics software and hardware systems. Fundamentals of operation of an 1130 computer system linked with interface to a drum plotter, and hands-on problem solving experiences requiring computer-developed graphical solutions and representations. Problem-solving experiences lead to final design project selected by student relative to his or her particular field of interest with instructor's approval.

216 Metal Machining (4)

Operation of cutting, grinding, and electrical discharge machines, with emphasis on factors affecting quality control during production. 1 lec, 6 lab.

220 Small Engines (3)

Assembly, adjustment, and gauging procedures, as

applied to small 2-cycle and 4-cycle gasoline engines. 1 lec, 4 lab.

244 Graphic Processes (3)

Production methods applied to letterpress, offset, and screen process printing. 1 lec, 4 lab.

250 Wood Industry (3)

Prereq: EG 101. Woodworking procedures and technology, including machine operation. 1 lec, 4 lab.

260 Line Supervision (3)

Prereq: 115. Working relationships between personnel involved in production areas of manufacturing considered, including qualifications and characteristics expected for various positions. Case studies provide examples of typical positions and responsibilities available to graduates in industrial technology. 3 lec.

270 Report Writing (3)

Practice toward illustration of reporting style and format within subsequent departmental classes. 3 lec.

301 Ceramic Production (3)

Ceramic materials, with emphasis on production processes. 1 lec, 4 lab.

302 Vitreous Materials (2)

Prereq: 301. Application of industrial ceramic products to problems associated with manufacturing. 4 lab.

308 Plastics (3)

Applications involving typical materials and forming techniques in production of plastic objects. Study of industry, its basis, and trends. 1 lec, 4 lab.

309 Plastics Tooling (2)

Prereq: 308. Study of tooling for plastics forming processes such as extrusion, injection molding, and compression molding. 1 lec, 2 lab.

310 Metal Casting (3)

Prereq: 250. Foundry practice extending from pattern design through production of finished casting. 1 lec, 4 lab.

311 Welding (2)

Prereq: 115. Varied types of welds, using arc, shielded arc, oxy-acetylene, and spot welders. Analysis of results based upon testing. 4 lab.

312 Metals Production (3)

Prereq: 216. Advanced practice of machining techniques organized to illustrate applications of quantity and quality control. 1 lec, 4 lab.

315 Technical Drawing (3)

Prereq: 101, 102, IndT 216, or perm. Standard and basic drawing representations as applied to industrial products and processes with special emphasis on detail and assembly drawing. 6 lec.

318 Numerical Control (3)

Prereq: 117 or 216. Metal machining extending from planning of work program through production of finished article. 2 lec, 2 lab.

319 APT Programming (3)

Prereq: 318. Study and application of APT (Automatic Programmed Tool) part programming as it applies to computer programming and numerically controlled machine tools. 3 lec.

320 Hydraulic Controls (3)

Prereq: Phys 201. Application of hydraulic principles to common industrial utilizations for power transmission and mechanism control. Emphasis on study of hardware and circuitry. 1 lec, 4 lab.

321 Pneumatic Circuits (3)

Prereq: 320. Components and circuits utilizing compressed air for power and control systems. 1 lec, 4 lab.

323 Automotive Theory (5)

Prereq: 220. Adjustments affecting performance and overhaul procedures. Dynamometer testing of performance characteristics. 2 lec, 6 lab.

332 Electronics (5)

Prereq: Phys 202. Experimental activity to develop proficiency in utilizing test instruments; learning characteristics of components commonly employed in simple circuits. 2 lec, 6 lab.

333 Semi-Conductors (3)

Prereq: 332. Experimental activity revealing performance characteristics of typical components and their functions in basic circuits. 1 lec, 4 lab.

336 Bioelectronics (3)

Prereq: Phys 202. Lab course for biological science majors. Electronic principles and circuits, equipment operation, and component selection. Emphasis on measurement and instrumentation. 1 lec, 4 lab.

341 Process Photography (3)

Prereq: 244. Applications of photography, with emphasis upon standardization of quality control, from exposure through printing by photo-offset and screen process methods. 1 lec, 4 lab.

342 Color Reproduction (3)

Prereq: 341. Production of multiple-color materials, including preparation of copy, photography, and printing by offset or screen process. 1 lec, 4 lab.

347 Plastics Process (3)

Prereq: 308. Typical industrial techniques used to insure quality in processing of manufactured plastics end products. 1 lec, 4 lab.

350 Furniture Production (5)

Prereq: 250. Shaping objects from wood through lamination and other methods as illustrations of processes currently employed in industry. 2 lec, 6 lab.

351 Jigs and Fixtures (3)

Prereq: 216, EG 101. Planning and constructing supplemental devices aimed toward increasing production quantity and quality in industry. 1 lec, 4 lab.

360 Manufacturing (3)

Prereq: jr rank. Manufacturing process and its integration into public school industrial arts curriculum.

361 Product Design (2)

Prereq: 250. Design principles applied through development of products. 4 lab.

362 Product Manufacture (5)

Prereq: 12 hrs, jr rank. Development of entire plan for manufacturing products. Plan to include sequence of operations, supply and work flow, personnel requirements, production rate, and cost predictions. 6 lab.

363 Quality Control (2)

Prereq: 362. Study and application of quality control

principles and practices, using products manufactured within other industrial technology classes as illustrative examples. 2 lec.

380 Driver Safety (5)

Prereq: EDCI 275 or Psy 275. Current traffic conditions and regulations affecting driving as preparation to becoming instructors in driver education. Lab involves working with novice drivers. 4 lec, 2 lab.

381 Traffic Safety (3)

Prereq: 380. Organization and administration of driver education, including study of related attitudes and methods practiced in existing programs. Practice instruction included. 2 lec, 2 lab.

390 Materials (3)

Prereq: 12 hrs. Sources, manufacture, and applications of common materials not given more extensive coverage within other departmental courses. 3 lec.

391 Elementary Industrial Arts (2)

Prereq: elementary education major. Planning and construction of projects designed to supplement other instruction at elementary level. 4 lab.

395 Co-op Work Study (5, max 15)

Prereq: perm. Work-study participation in established industrial training programs. Credit dependent upon advance registration and acceptance by approved companies participating in program.

396 Intern Supervision (3)

Prereq: 395 or perm. Practice supervision simulating foremanship level for students involved in production activity within other departmental courses. 1 lec, lab arranged.

413 Die Making (3)

Prereq: 312. Preparation and utilization of punching, forming, and molding dies for commonly employed industrial processes. 1 lec, 4 lab.

421 Power Transmission (3)

Prereq: 220. Practice with common power transmission units, including study of transmission efficiency and adjustments affecting operational characteristics. 4 lab.

435 Control Circuits (3)

Prereq: 332. Combinations of basic electronic circuitry in more complex arrangements commonly employed for machine control. Emphasis upon adjustment and correction of malfunctioning controls. 1 lec, 4 lab.

436 Electronic Applications (3)

Prereq: 333 or 336. Advanced experimental work on individual problems, as approved by instructor, for extension of knowledge from previous courses. 6 lab.

443 Advanced Graphics (2, max 4)

Prereq: 341. Problem solving in graphic reproductions as means of depth study in specific phases of this area. 4 lab.

465A Workshop in Industrial Education (1-6)

Special workshop for in-service training of industrial arts teachers. (electricity).

465B Workshop in Industrial Education (1-6)

Special workshop for in-service training of industrial arts teachers. (electronics).

465C Workshop in Industrial Education (1-6)

Special workshop for in-service training of industrial arts teachers. (metals).

465D Workshop in Industrial Education (1-6)

Special workshop for in-service training of industrial arts teachers. (woods).

465E Workshop in Industrial Education (1-6)

Special workshop for in-service training of industrial arts teachers. (plastics).

465F Workshop in Industrial Education (1-6)

Special workshop for in-service training of industrial arts teachers. (graphic arts).

465G Workshop in Industrial Education (1-6)

Special workshop for in-service training of industrial arts teachers. (pneumatics).

465H Workshop in Industrial Education (1-6)

Special workshop for in-service training of industrial arts teachers. (hydraulics).

465I Workshop in Industrial Education (1-6)

Special workshop for in-service training of industrial arts teachers. (power).

465J Workshop in Industrial Education (1-6)

Special workshop for in-service training of industrial arts teachers. (crafts).

465K Workshop in Industrial Education (1-6)

Special workshop for in-service training of industrial arts teachers. (elementary).

465L Workshop in Industrial Education (1-6)

Special workshop for in-service training of industrial arts teachers. (administration and supervision).

465M Workshop in Industrial Education (1-6)

Special workshop for in-service training of industrial arts teachers. (curriculum development).

465N Workshop in Industrial Education (1-6)

Special workshop for in-service training of industrial arts teachers. (facilities).

465O Workshop in Industrial Education (1-6)

Special workshop for in-service training of industrial arts teachers. (innovative programs).

465P Workshop in Industrial Education (1-6)

Special workshop for in-service training of industrial arts teachers. (ceramics).

470 Intern Teaching (3)

Prereq: EdSe 351, 12 hrs. (winter) Presenting technical and related material in industrial arts classes. 2 lec, lab arranged.

471 Administration of Industrial Education (3)

Prereq: 12 hrs. (fall) Types of organization, laboratory planning, equipment selection, and accounting systems found in vocational and nonvocational industrial education. 3 lec.

472 Contemporary Programs (3)

Prereq: 12 hrs. (spring) Development and application of industrial arts programs. 1 lec, 4 lab.

483 Safety Programs (4)

Prereq: 380 or 12 hrs. Organization patterns of safety programs, and how they are applied. 4 lec.

484A Maintenance Systems (3)

Prereq: 12 hrs. Maintenance systems currently utilized, with consideration of where and how each may be installed. Covers material related to Industrial Maintenance Systems. 3 lec.

484B Maintenance Systems (3)

Prereq: 12 hrs. Maintenance systems currently

utilized, with consideration of where and how each may be installed. Covers material related to Industrial Arts Labs. 3 lec.

490 Special Problems (1-5)

Prereq: sr rank, perm. In-depth study in related technical areas.

INTERNATIONAL STUDIES

Major in International Studies

(Major Code #4205)

Requirements for the AB degree major program in international studies consist of a minimum of 52 hours chosen from areas I and II as follows: *AREA I, International Studies* — a minimum of four courses, two on relations among nations and two on comparative studies. *AREA II, World Regions* — a minimum of 36 hours of coursework concerning one of the following world regions: Africa, Asia, Latin America, Soviet Union, and Eastern Europe, or Western Europe. A list of courses which may be used to complete these requirements may be obtained from the Center for International Studies or the College of Arts and Sciences.

Other requirements: 1) No more than 24 of the credit hours completed in pursuit of the 52 required for the major may be in *any one department**. Courses must be chosen from at least three departments with a minimum of eight hours in each. 2) Courses used to satisfy the area requirements for the AB degree cannot be used to meet major requirements and vice versa. 3) The language chosen to fulfill the AB-degree language requirement must be appropriate to the area of specialization chosen from AREA II of the major requirements. 4) The program requires the completion of ten hours of freshman-level English which, except for Eng 180, will apply to the humanities area requirement.

* Art history, comparative arts, and dance count as one department for distribution requirements.

International Studies Certificate

The Center for International Studies offers a certificate in international studies as a supplement to undergraduate major programs other than the major in international studies. The student may concentrate on Asia, Africa or Latin America. The requirements for the Latin American certificate are: (1) six courses relating to Latin America, (2) a study of a language relevant to the student's program through the intermediate level, (3) a grade point average of 2.50 in all courses taken toward the certificate. The requirements for the Asian or African certificate are: (1) nine courses which may be chosen in either of these two options: *Option A* — Three of the courses must be in an African or Asian language and the other six must relate to Africa or Asia; *Option B* — The nine courses must relate to Africa or Asia but with no language requirement; (2) a grade point average of 2.50 in all courses taken toward the certificate. The certificate is awarded upon graduation from Ohio University. Students seeking the certificate must register with the undergraduate certificate advisor in their area studies program.

For further information about the undergraduate certificate, the Center for International Studies, Asian, African and Latin American languages and

other international activities, see the *Special Programs* section of this catalog.

The Center for International Studies is responsible for the following interdisciplinary courses in the University College:

103 Modern Asia (5)

Introduction to history, cultures, and current problems of civilizations of Asia. Interdisciplinary survey dealing with China, Japan, India, and Southeast Asia (Burma, Thailand, Vietnam, Cambodia, Laos, Malaysia, Singapore, Indonesia, and the Philippines).

113 Modern Africa (4)

Interdisciplinary introductory survey of Africa, its culture, history, and modern development. Disciplines included: anthropology, art, dance, economics, education, geography, history, linguistics, literature, and political science.

121 Interdisciplinary Survey of Latin America (4)

Introduction to Latin America through geography, politics, sociology, economics, literature, and art. Special emphasis given to 20th century issues, problems, and developments.

INTERPERSONAL COMMUNICATION

101 Fundamentals of Speech (3)

Analysis of role of oral communication in human relationships with consideration of variety of interpersonal contexts; performance directed toward student development of proficiency in oral communication.

103 Public Speaking (4)

Principles of public speaking, practice in presenting informative and persuasive speeches with emphasis on communicative process. Fr and soph only.

104 Listening (2)

Improvement of listening skills through intensive practice.

105 Introduction to Mass Communication (4)

Development, structure, functions, processes, control, and effects of mass media. 4 lec. Same as Jour 105 and R-TV 105.

107 Introduction to Verbal Language Behavior (2)

Fundamental linguistic theory of verbal language production in message generation, oral, vocal, and verbal. International Phonetic Alphabet studied in relation to speech, articulation, and pronunciation.

205 Group Discussion (4)

Study of structure and internal dynamics of small groups, nature and functions of leadership and group participation, problem solving, and decision making; frequent participation in group discussion activities.

206 Communication in Interpersonal Relationships (4)

Provides maximum experience in study of communication in social interaction. Exploration of communication variables, and skill development in message generation in 1-to-1 informal settings.

210 Parliamentary Procedure (2)

Non-lecture, small-group work in theory and procedures by which organizations are run according to rules of order.

212 Message Preparation (4)

Prereq: 103 or 217 B or perm. Theory and practicum in message preparation and presentation with emphasis on informative and persuasive forms. Intensive concentration on developing individual oral communicative skills.

215 Argumentation and Debate (4)

Basic principles of argumentative discourse including concepts of presumption, burden of proof, rhetorical forms of reasoning, and evidence. Practice in applying these principles.

217A Forensic Workshop — Debate (1-6)

Prereq: perm. Intensive work in Intercollegiate Forensics Program. Students prepare for debate on contemporary issues. For credit, students must participate in 1 intercollegiate contest.

217B Forensic Workshop — Individual Events (1-6)

Prereq: perm. Intensive work in Intercollegiate Forensics Program. Students prepare for audience and tournament appearances in persuasion, oral interpretation, extemporaneous, sales, informative, and impromptu speaking. For credit, students must participate in 1 collegiate tournament.

220 Oral Interpretation of Literature (4)

Techniques of oral interpretation and development of adequate intellectual and emotional responsiveness to meaning of literature.

234 Introduction to Communication Theory (5)

Prereq: soph rank. Survey of selected humanistic and scientific approaches to communication studies. Emphasis on philosophical bases of communication theory.

245 Introduction to Organizational Communication (4)

Analysis of traditional and contemporary theories of communication in context of modern complex organizations (government, industry, education, etc.). Consideration and explication of such pertinent concepts and variables as message, channel, networks, information, information flow, communication climate, communication audit, etc.

301 Empirical Research Applications in Communication (5)

Prereq: jr rank, MATH 113 or equiv. Provides undergraduates with principles and basic skills necessary to criticize research literature, develop minimal proficiencies in structuring designs basic to descriptive and experimental studies, including data collection, analysis, and presentation techniques in communication research.

342 Communication and Persuasion (4)

Process of communication and attitude change, survey of general theories and typical research, analysis of contemporary persuasion problems.

353A History and Criticism of Courtroom Oratory (3)

Famous cases and methods of communication of masters of courtroom and judicial oratory. Cases, trials including Cicero, Strafford, Charles I, Erskine, Hastings, Marshall, Webster, Darrow, Sacco-Vanzetti.

353B History and Criticism of Political Oratory (3)

Methods of communication, rhetorical theories of masters of political oratory. Debates including Burke, Chatham, Pitt, Calhoun, Clay, Webster. Movements including nationalism, imperialism, social and political reform.

353C History and Criticism of 20th Century Oratory (3)

Methods of communication of masters of the period. Figures: Hitler, Mussolini, Lenin, Wilson, Churchill, Roosevelt, Kennedy, King. Movements: rhetoric of revolution, nationalism, fascism, socialism, communism, republicanism.

353D Topics in Public Address (3)

Contemporary topics and principal forms of contemporary rhetorical communication as reflected in selected figures and movements.

404 Principles and Techniques of Interviewing (4)

Prereq: perm and sr rank. Methods used in 2-party, face-to-face oral communicative situations commonly encountered in organizational and professional environments. Intensive practice through role-playing and real-life interviews in and out of class, emphasizing skills involved in giving and getting information, persuasion, and job-employment situations.

405 Principles of Conference Leadership (4)

Prereq: 205 or perm. Theoretical and methodological approaches to principles of group and conference leadership. Emphasis on leadership methods and skills as they apply to group and conference situations.

406 Small Group Communication (4)

Prereq: 205 or perm. Communication theory and research in small group settings. Analysis of group development process in different types of small groups. Observation and analysis of communication practices within ongoing groups.

421 Instructional Methods (5)

Prereq: 3rd qtr jr or sr. Provides upper-level undergraduate and graduate preprofessional and professional training in development of interpersonal communication as human resource. Emphasis on application of communication skills necessary in organizational construct: education, business, professions, and governmental service.

425A Direction of Forensic Programs in Secondary Teaching (3)

Prereq: 103 and 217 or perm. Curriculum, coaching, budgeting, judging, public relations, professionalism, and tournament management. Practical application in high school forensics programs.

425B Direction of Forensic Programs in College Teaching (3)

Prereq: 103 and 217 or perm. (winter, summer) Study in curriculum, coaching, budgeting, judging, public relations, professionalism, and tournament management. Practical application in university forensics programs.

433 Applications of General Semantics (4)

Chief formulations from general semantics and their applications to field of communication.

435 Theories of Argument (3)

Relations between formal logic and rhetorical systems of argument; intensive study of fallacies and of experimental findings related to study of argument.

445 Practicum in Organizational Communication (5)

Prereq: 245 and 301. Message generation and analysis in simulated organizational environment; simulation of specific communication situations and problems student may encounter in professional career; opportunity to apply skills and theories.

446 Communication and the Campaign (5)

Prereq: perm and sr rank. Theory and practice of persuasion and management in campaign situations (political, religious, information, fund-raising, advertising, etc.). Students may participate in local, state, or national campaigns, or do research paper in depth.

448 Cross-Cultural Communication (4)

Analysis of processes and problems of communication as affected by national cultures; effects of differences in language, values, meaning, perception, and thought.

450 Introduction to Rhetorical Theory (3)

Prereq: 103 and 215 or perm. Ancient and modern rhetorical communicative concepts and theories.

452 Psychology of Speech (4)

Psychological principles active in communication such as concept-reference, meaning, vocal, verbal and nonverbal cues. Neurophysiological mechanism and socio-psychological-linguistic dimensions of speech examined.

458 Responsibilities and Freedom of Speech in Communication (4)

Ethical and rhetorical implications of constitutional guarantees on political, social, and religious speech: Analyses of effects of famous legal cases on freedom of speech.

460 Principles of Message Analysis (4)

Prereq: 234, 301, and 450 or perm. Theory, research, and practice in analyzing human messages produced in natural settings. Survey of various coding methods: type/token ratio, content analysis, discourse analysis, and relational analysis; application of selected techniques to previously generated messages.

495 Senior Project in Organizational Communication (4)

Prereq: sr major. Contracted individual projects. Wkly mtgs with instructor. Written analysis of each project subject to evaluation.

496 Extended Instructional Seminar (1-16)

Formalized extended learning special topics seminar. Not intended for regular student. No graded evaluation; awards credit-noncredit.

497 Internship (1-15)

Prereq: perm. Systematic, supervised practical training and experience for undergraduate students in selected professional environments.

498 Independent Study (2-4, max 12)

Prereq: written proposal, perm. May be repeated for credit.

ITALIAN

See Foreign Languages and Literatures.

JOURNALISM

The Ohio University School of Journalism is accredited by the American Council on Education for Journalism. As one of a limited number of accredited schools and departments of journalism in the United States, it is a member of the American Association of Schools and Departments of Journalism.

105 Introduction to Mass Communications (4)

All forms of mass communication including newspapers, magazines, radio-television, book publishing, public relations, advertising, and photojournalism. Begins with analysis of communication process and ends with media career opportunities. Similar to R-TV 105 and InCo 105.

189 Journalism Workshop (1-4)

Workshop on selected topics of journalism and mass communication. May be repeated to total 6 hrs of credit.

221 Graphics of Communication (5)

Prereq: majors only. Creative and practical aspects of typography, layout, and design of printed communication.

221A Graphics of Communication (5)

Creative and practical aspects of typography, layout and design of printed communication.

231 News Reporting (4)

Prereq: typing proficiency and passage of English Proficiency Test. Methods of gathering and evaluating news and writing typical news stories. Practice work covering assignments and preparing copy.

231A News Reporting (4)

Prereq: typing proficiency, nonmajors only. Methods of gathering and evaluating news and writing typical news stories. Practice work covering assignments and preparing copy.

231B News Reporting (4)

Prereq: major, prior reporting experience, and perm. Accelerated section for journalism majors with some prior experience in reporting. Methods of gathering and evaluating news and writing typical news stories. Practice work covering assignments and preparing copy.

250 Advertising Principles (5)

Prereq: advertising and PR majors or perm. Major factors in development of advertising programs.

250A Advertising Principles (5)

Major factors in development of advertising programs.

311 History of American Journalism (4)

Prereq: major or perm. Development of newspaper, magazine, and broadcast journalism from colonial period to present. Social, political, economic, and mechanical aspects.

321 Newspaper Advertising and Layout (4)

Prereq: 221, 231, 250 and major or perm. Operation of advertising department from viewpoint of advertising manager.

323 Newspaper Advertising Practice (2)

Prereq: 321, perm. Lab work in preparing copy for local display advertisers. Other experience in classified, national, and promotion advertising.

325 Photojournalism (3)

Prereq: 231 or perm. Basic principles and practices of photojournalism for newspapers, magazines, and television. Includes consideration of roles of photographers and picture editors in communications and their relationships with other members of the editorial team and mechanical departments of publications. Students shoot, process, and print pictures on assignment.

326 Advanced Photojournalism (3)

Prereq: 325. See title.

331 Reporting Contemporary Issues (3)

Prereq: 231, jr or sr rank. Research, reading, and speech reporting on current social problems. Emphasis on intelligent understanding and ability to report in depth for mass audience.

332 Reporting Practice (2)

Prereq: 231, perm. Assignments at the *Athens Messenger* in city, sports, and women's desk reporting, along with features.

332B Reporting Practice (2)

Prereq: 231 and perm. Assignments at the Center for Afro-American Studies in news and feature reporting about black community.

333 News Editing (4)

Prereq: C or better in 231, passage of English Proficiency Test. Copyreading, headline writing, news selection, and layout of news pages.

334 Editing Practice (2)

Prereq: 333, perm. Copyreading on the *Athens Messenger*. Handling of local correspondence, wire copy, and working out make-up problems.

335 Picture Editing (3)

Prereq: 333 or perm. Principles and practices of picture editing. Includes consideration of picture sources, assignment, and handling; photographic technique and esthetics; legal and ethical factors; visual idiosyncrasies of various media.

351 News in Broadcasting (5)

Prereq: 231 and 333 or perm. News programming, practices, and problems in broadcasting. Preparation of news reports for broadcasts.

353 Radio-TV News Practice (2)

Prereq: 351 or perm. Preparation of news for broadcast. Students serve as assistants in newsroom of University's broadcasting stations or, by special arrangement and perm, in other stations.

362 Community Newspapers (3)

Prereq: 333 or perm. Editorial and business practices of suburban weeklies and dailies.

363 Reviewing and Criticism (3)

Prereq: 231 and major or perm. Written criticism of fine and popular arts. Special role of critic who serves both as reporter and evaluator of artistic works for lay audience.

411 Newspaper and Communications Law (4)

Prereq: C or better in 333. Principles and case studies in communications law, constitutional guarantees, libel, privacy, contempt, privilege, copyright, and government regulatory agencies.

412 Mass Media and Society (3)

Prereq: C or better in 333 and 411 or perm. Social responsibility of journalistic or other mass communicator. Professional codes, responsibility of

media for social change, reaction to political and economic pressures.

421 Graphic Production Processes (5)

Prereq: 221 and perm. Advanced study of all processes for reproducing printed communication. Theory and lab.

422 Advertising Production (3)

Prereq: 221, 321, or perm. Techniques and problems in methods of advertising production.

430 Magazine Editing and Production (4)

Prereq: 221. Theory and techniques of magazine editing and production, including analysis of the magazine industry and of specific magazines and audiences they serve. Editorial objectives and formulas, issue planning, article selection, layout, illustration, typography, printing, and distribution. Magazine project required.

431 Magazine Editing and Production Practice (3)

Prereq: 430. Practice course where students completing 430 can apply their knowledge to production of a quarterly magazine done regularly by the School of Journalism. Each student assigned specific position on magazine. Laboratory magazines produced in course of qtr.

432 Specialized Magazines (3)

Prereq: perm. As time of mass circulation magazine appears to wane, specialty magazine (professional, special interest, business, industrial, learned, demographic) strengthens. This course considers publishing problems in all these areas usually in form of case studies. Students asked to draw prospectus for specialty magazine and audience studies are carried out.

441 Magazine Feature Writing (4)

Prereq: 231 and 333, 15 hrs English, or perm. Writing and marketing factual magazine feature articles of various types. Finding subjects, securing photographs, writing articles, and surveying markets.

442 Advanced Magazine Feature Writing (3)

Prereq: 441. Writing and marketing magazine articles. Emphasis on specialized markets.

450 Advertising Copy Writing (3)

Prereq: 221, 231, 250 and advertising or PR majors or perm. Effective persuasion in print.

452 TV Newsfilm Production and Editing (3)

Prereq: 351 or perm. Principles and practices of TV newsfilm production and editing. Similar to R-TV 452.

455 Seminar in Broadcast News (3)

Prereq: perm. Discussion of problems — operational, social, economic, legal, and ethical — faced by broadcasters reporting public affairs.

461 Specialized Journalism (3)

Prereq: sr rank and perm. Seminar approach to individual study of journalistic areas of special interest to individual students.

462 Internship (3)

Prereq: perm before beginning internship. Conference course for students who have completed internship with an approved organization. Student will submit a comprehensive report analyzing internship experience.

464 Reporting of Public Affairs (3)

Prereq: 333, sr rank, major or perm. Problems of

preparing in-depth, interpretive, and analytical reports on public affairs for mass media, with practice in writing such reports. Focus mostly on contemporary controversial issues.

465 The Editorial Page (3)

Prereq: 333, sr rank, major, or perm. Editorial page in opinion formation. Problems of content selection and presentation. Extensive writing of analytical and persuasive editorials and interpretive articles in depth.

466 International Communications (5)

Prereq: sr rank and major or perm. Development and operations of world mass communication channels and agencies. Comparative analysis of media, media practices, and flow of news throughout world. Relation of communication practices to international affairs and understanding.

467 Foreign Correspondence (3)

Prereq: sr rank and 466 or perm. Role of foreign correspondent in news-gathering. History, scope, techniques.

471 Public Relations Principles (5)

Prereq: 333, sr rank, and PR major or perm. Public relations planning and techniques; selected communication studies and theories. Polling, defining objectives, and analysis of public relations messages.

472 Advanced Public Relations (4)

Prereq: 471 or perm. Planning public relations programs and projects, including selection of audiences, messages, and media, and evaluation of effects. Project in area of student's interest.

481 Newspaper Management (3)

Prereq: 333. Problems in publishing affecting all departments.

482 Radio-Television Advertising and Management (4)

Prereq: 221, 231, and 250 or perm. See title.

484 Supervising School Publications (4)

Prereq: 12 hrs or perm. Conference course for prospective advisors of school newspapers, yearbooks, magazines, and other publications. Purposes and functions, legal aspects, staff selection, content, copy, layout, production, printing, advertising, photography, business.

485 Journalism in the Secondary School Curriculum (4)

Prereq: 9 hrs of journalism. Intensive study and analysis of appropriate content for high school journalism courses. Planning course outlines and curricula.

489 Journalism Workshop (1-4)

Selected topics of journalism and mass communication, including newspapers, yearbooks, photojournalism, advertising, magazines, public relations, and publications advising. May be repeated to total 10 hrs of credit.

490 Independent Study (1-4)

Prereq: written proposal and perm. See title. May be repeated to 15 hours' credit.

491 Research in Journalism and Communications (1-15)

Prereq: perm.

492 Seminar (1-4)

Prereq: 333, sr rank. Selected topics of current significance. May be repeated with different topics to 12 hours' credit.

LATIN

See Foreign Languages and Literatures.

LATIN AMERICAN STUDIES

See International Studies.

LAW ENFORCEMENT TECHNOLOGY

The following courses for the AAS program in law enforcement technology are available only on the Chillicothe campus.

100 Introduction to Law Enforcement Technology (3)

Philosophy and history of law enforcement; overview of crime and police problems; organization and jurisdiction of local, state, and federal law enforcement agencies; survey of professional career opportunities and qualification required.

110 Police Role in Crime and Delinquency (3)

Extent and distribution of crime and delinquency, with special emphasis on basic factors and conditions contributing to problem; some case study and evaluation of community resources in prevention field and detailed review of role of school, family, religious institutions, law enforcement agencies, courts, and correctional institutions. Part law enforcement agencies play in juvenile delinquency control, organization and functions of related juvenile agencies, laws governing handling of juvenile offenders, and brief resume of juvenile court and its jurisdiction.

120 Constitutional, Criminal, and Civil Law (3)

Study of the U.S. constitution and amendments thereto by text material and case method system; major emphasis in freedom of speech, search and seizure, arrest and detention, interrogation and confession, self incrimination, right to counsel, double jeopardy, and due process situations.

130 Interviewing and Report Writing (3)

Examination of interviewing and interrogation procedures employed by law enforcement for obtaining information plus practical experience in use of methods. Mechanics of writing reports, including collecting information and taking statements, writing descriptive narratives, and report revision.

140 Introduction to Criminalistics (3)

Survey of systematic collection of evidence and potentialities and recommendations of applied science to criminal investigation. Includes demonstration of techniques utilized in processing criminal evidence and practical experience in selected crime lab methods.

150 Police Patrol Operations (3)

Focus on patrol function. Examination of purposes, methods, techniques, and types of patrol. Overview of support services, examination of various police services and public assistance, and analysis of deployment procedures and practices as related to overall mission of police patrol.

200 Procedures, Rules, and Test of Evidence (4)

Prereq: 120 or perm. Instruction designed to acquaint officer with court's system in Ohio, its functions, authority, and duties. Explains workings of all courts of record and provides description of mayor's courts which are the only courts not of record in State of Ohio. Kinds and degrees of evidence. Admissibility of evidence in criminal court cases, materiality and competency of evidence. Distinction between admissions and confessions; exceptions to hearsay rule; types of evidence.

210 Cybernetics (3)

Application and use of computers and/or automated systems for rapid storage and retrieval of information. Types of electronic data processing systems and their compatibility with contemporary police operations explored.

220 Court Procedures and Processes (3)

Case preparation, officer testimony and demeanor in court, effective preparation and presentation of criminal evidence, trial procedures, utilization of written notes, and reaction to cross examination.

230 Police Community Relations (3)

Nature of relationships between police and various segments of community; racial and/or ethnic minorities, news media, clergy, and youth explored. Historical reasons for present dilemma and suggested changes to alleviate these problems.

240 Law Enforcement, Administration and Supervision (3)

Prereq: 103 or perm; 2nd yr law enforcement technology students or law enforcement personnel. Principles of law enforcement agency administration. Organization, planning and research, management, personnel management, training, and public relations. Administrative functions in vice control, crime delinquency prevention and control, patrol, investigation, communications, statistics, and records.

250 Vice and Narcotic Control (3)

Exploration of history, identification, and effects of narcotics. Narcotic and vice problem as it exists and penal statutes affecting control of narcotics and vice studied.

260 Criminal Investigation (3)

Prereq: 201. Fundamentals of investigation; crime scene search and recording; collection and preservation of physical evidence, scientific aids, *modus operandi*, sources of information, interviews and interrogation, follow-up, and case preparation. 3 lec, 2 lab.

270 Arrest, Search and Seizure (3)

Prereq: 200. In-depth discussion of moral and legal obligations in use of police weapons. Includes legal provisions, safety precautions, and restrictions in use of firearms. Advanced theories and application, police combat shooting, all-weather firing, and new developments in police weaponry. Training for student in lawful methods of search and seizure and discussion of search of persons, places, and things,

with emphasis on legality. Applicable court decisions and rulings presented and discussed. 3 lec, 2 lab.

280 Traffic Enforcement, Education and Engineering (3)

Prereq: 102. Law relating to registration of motor vehicles, driver's license, Vehicle Code sections most often encountered and violated, regulation and traffic control, traffic accident investigation, traffic accident report forms; types and uses.

290 Special Problems (3)

Provides opportunity for students to explore topics of interest on individual basis, or in structured courses developed as common interest arises.

LIBRARY MEDIA TECHNOLOGY

The following courses for the AAS program in library media technology are available only on the Lancaster campus.

101 Introduction to Libraries and Library Technology (3)

General introduction to libraries and their organization. Designed for students interested in employment as library technical assistants in special, school, public, or college libraries.

102 Support Operations for Public Services I (4)

Designed to acquaint library technology students with various kinds of public services including circulation control systems, location of information, and public relations.

103 Support Operations for Public Services II (4)

Emphasizes materials and techniques in reference and information services. Includes understanding of skills needed in patron interviews.

104 Support Operations for Technical Services I (4)

Basic procedures in ordering, receiving, organizing, and processing of printed library materials.

201 Support Services for Specific Groups I (4)

Introduces different types of library users — children, young adults, disadvantaged, minorities, etc. Provides background information concerning material, print and nonprint, to enable LMTC to direct public to library service which will best serve its needs.

202 Support Services for Specific Groups II (4)

Specific techniques with which LMTC assists librarian in direct service to community of library users. Introduction of new and innovative methods of servicing total library community.

203 Library Technician Internship (3)

Prereq: perm. Exploratory experience in several types of libraries: observation plus participation in routines where possible.

204 Support Operations for Technical Services II (3)

Introduction to simple cataloging and classifying procedures.

205 Library Technician Internship II (4)

Prereq: perm. Work experience — 180 hrs or approximately 5 wks — in library/media center. Exposure to variety of activities under qualified professional staff. Weekly seminar required (See 209).

206 Audio-Visual Methods and Materials (4)

Operation and simple maintenance of audio-visual equipment and technical procedures used in processing, cataloging, circulating, and servicing requests for audio-visual materials.

207 Preparation of Audio-Visual Materials (4)

Preparing simple audio-visual materials and sources of commercially prepared materials.

208 Support Operation for Technical Services III (3)

Prereq: 204. Additional study and practice in cataloging and classification including nonprint media and use of OCLC terminal.

209 Seminar (1-3)

Prereq: 205. Weekly seminar required of those taking 205. Credit hours determined by amount of necessary independent study.

290 Independent Study (1-10)

Prereq: perm. Research in selected areas of library science and technology under direction of faculty member.

LIBRARY SCIENCE

See Education — Curriculum and Instruction.

LINGUISTICS

A major in linguistics is not offered. Students desiring to prepare for graduate study in linguistics should consider taking 270, 280, 290, 350, 380, 395, 460, 470, 480, 482, 486, 490, and 491. Programs in related fields in communication, social sciences, and humanities can be enriched by inclusion of these linguistic courses open to undergraduates. See the entry, Linguistics, under Special Curricula in the College of Arts and Sciences.

270 The Nature of Language (5)

Nontechnical investigation into basic nature of human language.

280 Language and Culture (4)

Similarities and differences of language behavior in a variety of cultural contexts.

290 Introduction to Psycholinguistics (4)

Prereq: Psy 101. (fall) Study of linguistic behavior and psychological mechanisms responsible for it.

350 Introduction to General Linguistics (5)

Prereq: jr or sr rank. Technical introduction to devices of language description, and survey of relationships and applications of linguistics to other disciplines.

380 Language and Culture (5)

Similarities and differences of language behavior in a variety of cultural contexts. (Same as 280 except paper required.)

395 Introduction to Area Linguistics (3 or 5)

Prereq: perm. (winter) Investigation of linguistic characteristics of a specific group or subgroup of languages within Malayo-Polynesian or African families.

460 Phonology (5)

Prereq: 350 or perm. (fall) Introductory course in analysis of sound systems of natural languages.

470 Syntax (5)

Prereq: 350 or perm. (fall) Introduction to theory and application of grammatical analysis of natural languages.

480 TEFL Theory and Methodology (5)

Prereq: 350, 460. Second language teaching theory and methodology, with emphasis on teaching English as a foreign language.

482 Materials in TEFL (5)

Prereq: perm. Theory and practice of analysis, evaluation, and creation of instructional materials for teaching English as a foreign language.

486 Theories of Language Learning (5)

Prereq: perm. (fall) Introduction to theories of 1st and 2nd language acquisition and their implication for language teaching methodology.

490 Special Studies in Linguistics (1-3)

Prereq: perm. Independent study of a particular area of interest in linguistics.

491 Sociolinguistics (5)

Prereq: jr or sr rank. (spring) Introduction to relationships between interlocking systems of language and social grouping.

MALAY

See Foreign Languages and Literatures.

MANAGEMENT

200 Introduction to Management (4)

Prereq: Not open to CBA students. Nature of managerial concept, managerial functions, and organizational structure, with emphasis on current issues.

300 Management (4)

Prereq: jr rank or soph if management major. Understanding of and practice in solving problems facing managers and administrators using concepts and principles from behavioral sciences and other applicable disciplines.

325 Communication Behavior in the Modern Organization (4)

Prereq: jr rank or soph if management major. Introduction to basic concepts of organizational communication and practice with written communication forms (letters and reports). Brief consideration given to oral communication.

420 Administration of Personnel (4)

Prereq: 300 or perm. Practices in recruitment, evaluation, counseling, training and development, discipline, and compensation of employees. Includes typical personnel staff functions such as manpower planning, safety administration, attitude surveys, record keeping, and audit of programs.

421 Personnel Management Problems (4)

Prereq: 420. Personnel problems and their relation to various ethological concepts. Case approach.

425 Labor Relations (4)

Prereq: 300 or perm. Climate of relations between labor and management, union organizing, collective bargaining, grievance procedures, arbitration. Uses readings, cases, and class exercises to develop understanding of labor-management problems and ability to solve them.

426 Manpower Management (4)

Prereq: 420 and 425 or perm. Advanced course in management of human resources of organization. Integrates personnel and labor relations at planning and policy-making level.

428 Nonindustrial Labor Relations (4)

Prereq: jr rank and perm. Labor management relations problems and practices in nonprofit-making organizations such as government (city, county, state, and federal), educational institutions, charity and health care organizations. Covers such topics as relevant laws and regulations, administrative response to unionization attempts, contracts negotiations, contract administration including grievance handling and arbitration through lectures, readings and case analyses.

430 Management Systems: Decision-Making (4)

Prereq: 300 or perm. Decision-making and problem solving in organizations from managerial perspective.

435 Management Systems: Information Handling (4)

Prereq: 430 or perm. Focuses upon humans and machines as components of formalized information systems. Subject matter approached from systems and procedures viewpoint, with particular emphasis on management planning and control techniques.

440 Organizational Behavior — Leadership and Motivation (4)

Prereq: 300 or perm. Conceptual framework of behavioral sciences to management and organizations. Motivation and leader behavior within organizational settings.

445 Organizational Behavior — Work Groups and Formal Organizations (4)

Prereq: 440 or perm. Organizational theory and behavior emphasizing formal organizational theory and work group behavior. Concentrates on interaction between organization, its environment and its members, and influences of informal work groups on member behavior.

450 Managing Health Care Organizations (4)

Prereq: 200 or 300. Develops conceptual tools for understanding health care management problems.

484 International Comparative Management (4)

Prereq: sr rank. Survey and analysis of similarities and differences in management systems, processes, and styles, as well as evaluation of changes and their impact in selected groups of countries.

491 Seminar (3, 4 or 5)

Prereq: perm. Selected topics of current interest in management and organizational behavior area.

492 Management Thought (4)

Prereq: sr rank. Review of development of managerial theories from 5000 B.C. to present with consideration of their application to present organizational settings.

493 Readings (1-5)

Prereq: perm. Readings in selected fields of management and organizational behavior. Topics selected by student in consultation with faculty member.

494 Management Research (4)

Prereq: 12 hrs of management courses. Practical application of research methods in behavioral sciences to management problems, emphasizing research available and its use in decision making and in solving managerial problems.

496 Organizational Behavior — Managing Change (4)

Prereq: 440 and 445 or perm. Planning and implementing change in organizational settings.

497 Independent Research (1-5)

Prereq: perm. Research in selected fields of management and organizational behavior under direction of faculty member.

MANUFACTURING TECHNOLOGY

The following courses for the AAS program in manufacturing technology are available only on the Lancaster campus.

220 Basic Hydraulics (3)

Prereq: Phys 201. Application of hydraulic principles to common industrial control circuits. Emphasis on maintenance of hardware and circuitry. Field trips part of lab activity. 1 lec, 4 labs.

221 Basic Pneumatics (3)

Prereq: 220. Application of compressed air control systems to common industrial control circuits. Emphasis on maintenance of hardware and circuitry. 1 lec, 4 labs.

261 Manufacturing I (Processes) (3)

Comprehensive study of machine processes used in manufacturing with regard to their selection and plant layout requirements. Field trips part of lab activity. 2 lec, 2 labs.

262 Manufacturing II (Inventory, Handling, Costing) (3)

Prereq: 261 or perm. Inventory control, materials handling and production costs, storing and handling of materials before, during, and after manufacture. Field trips part of lab activity. 2 lec, 2 labs.

263 Manufacturing III (Quality Control) (3)

Analysis of basic principles of quality control. Includes statistical aspects of tolerance, basic concepts of probability, frequency distribution, sampling inspection, charts and gages related to inspection. Field trips part of lab activity. 2 lec, 2 labs.

264 Manufacturing IV (Scheduling) (3)

Various established techniques of scheduling, analyzing, and improving production operations. Detailed study of applications of CPM scheduling. Introduction of PERT. Field trips part of lab activity. 2 lec, 2 labs.

290 Materials (3)

Sources, manufacture, and applications of common materials used in manufacturing process. 3 lec.

299 Special Problems (1-3, max 9)*

Prereq: perm. Individual projects or internship experiences under supervision of faculty member in manufacturing technology.

MARKETING

The marketing major prepares students to become professional marketing personnel via available coursework in sales management, marketing research and consumer behavior, and marketing analysis and management.

In addition to the BBA degree requirements, a student majoring in marketing must complete 24 hours of marketing courses at the 300 or 400 level including 463.

101 Consumer Survival in the Marketplace (4)

How consumer can adapt himself or herself to modern marketing environment so as to optimize satisfaction derived from spending his or her money.

301 Marketing Principles (4)

Prereq: Econ 101 or 301 and jr rank (3rd qtr soph if marketing major). Principles of marketing management with emphasis on practices and problems of marketing manager; analysis of marketing environment; lectures supplemented with cases.

303 Marketing Problems and Cases (4)

Prereq: 301. Problems facing manufacturers and middlemen in marketing programs. Students will develop integrated marketing programs based on cases taken from actual business situations. Emphasis on development of analytical skills.

404 Management of Distribution (4)

Prereq: 301. Problems encountered by manufacturer in establishing and maintaining effective distribution system, concentrating on channel design and strategies.

425 Industrial Marketing (4)

Prereq: 301. Investigation and analysis of problems involved in marketing of industrial products.

441 International Marketing (4)

Prereq: 301. Marketing problems, opportunities, and organization of multinational firms to serve overseas markets. Government aids and impediments and comparison of markets and marketing techniques in U.S. and foreign countries.

444 Consumer Behavior (4)

Prereq: 301 and 8 hrs psychology and/or sociology. Individual, social, and cultural influences that affect consumer behavior. Consideration of explanatory and predictive models.

450 Management of Promotion (4)

Prereq: 301. Problem-solving course leading to development and management of firm's promotional mix with emphasis on use of mass media and on stimulation of reseller's cooperation.

458 Sales Management (4)

Prereq: 301. Principles and practices in planning, organizing, and controlling sales force. Selection, training, compensating, supervising, and stimulating salesmen. Analysis of sales potentials and costs.

461 Social Issues of Marketing (4)

Prereq: 301. Designed to increase awareness of fu-

ture marketing managers of contemporary social issues and legal requirements of marketplace. Social critics, past and present, and their criticisms, including excessive promotion, unsafe and unnecessary products, high prices, and possible societal and governmental responses to these criticisms.

463 Marketing Strategy (4)

Prereq: sr rank and marketing major or perm. Analysis of preparation and organization of overall marketing plans and elements of marketing mix. Also developed are merchandising analyses, objectives, and strategies which take into consideration ever-changing consumer, trade, and legal environment.

479 Marketing Research (4)

Prereq: 21 hrs business administration, 8 hrs marketing. Techniques involved in collection, tabulation, and analysis of marketing information.

480 Mathematical Models of Marketing Analysis (4)

Prereq: 479. Quantitative techniques that can be used in analysis of marketing problems and application of these methods to problem situations. (Taught on team basis with marketing and quantitative methods faculty.)

491 Seminar (3, 4 or 5)

Prereq: perm. Selected topics of current interest in marketing area.

497 Independent Research (1-15)

Prereq: perm. Research in selected fields of marketing under direction of faculty member.

498 Internship (1-15)

Prereq: perm.

MATHEMATICS

The requirement for the AB or BS degree major in mathematics is 50 quarter hours in courses numbered 200 or above, 15 hours of which must be chosen from courses numbered 333 and above (exclusive of 490 and 491), all taken for grade. The requirement for a minor in mathematics is 30 quarter hours in mathematics courses numbered above 200, including ten quarter hours of courses numbered 333 or above.

When planning any program of study in mathematics, it is strongly recommended that the student consult an advisor from the department.

A student wishing to study mathematics strictly from a mathematician's viewpoint, in specially designed courses, should inquire about our tutorial program. (Standard courses listed in the bulletin are designed to serve many departments and purposes.)

A student studying mathematics with the view of eventually doing graduate work in mathematics is encouraged to pattern a program around the following suggested basic course selections: Math 263A, B, C, 340, 360, 211 and/or 214, 411, 460A, B, C, and at least one (possibly both) of the sequences 413A, B or 480A, B. For more detailed information and recommendations, the student should consult the College of Arts and Sciences Special Curricula section of this catalog.

A student wishing to use mathematics training in business and industry may elect to pursue studies in applied mathematics. Such a course of study may terminate in a BS degree or be continued into gradu-

ate studies. For more detailed information and some example programs of study, the student should consult the College of Arts and Sciences Special Curricula section of this catalog.

A student preparing for teacher certification should seek a broad background in various areas of mathematics, including algebra, analysis, geometry, computer science, probability, and statistics. In addition to the specified course requirements listed by the College of Education, suggested electives include: Math 211, 360, 333, 300, 406, 207, and 250B. Consult an advisor in the Mathematics Department or College of Education for additional information.

Courses labeled 151 or below (with the exception of Math 116 when taken as a prerequisite for Math 263B) are not open for credit to students who have passed a mathematics course with a number higher than 151. Math 113, 116, and 130 are essentially remedial precalculus courses. Before enrolling in Math 163A or 263A, it is recommended that the student take a self-administered test available at the Mathematics Department or at University College to decide if any of these remedial courses are needed.

For mathematics majors, all prerequisites are recommended but not required.

113 Algebra (5)

Prereq: at least 1 yr h.s. algebra. Review topics in high school algebra including linear and quadratic equations and inequalities, factoring, fractions, radicals and exponents, and simple graphing techniques.

116 Analytic Trigonometry (2)

Prereq: 2 yrs h.s. math. Trigonometric functions and their properties, identities, equations, and applications.

117 Elementary Applied Mathematics (4)

Prereq: at least 1 yr h.s. algebra. Topics from intermediate algebra such as functions and graphs, systems of linear equations, 3x3 determinants, factoring, quadratic equations and inequalities, exponents and radicals, and logarithms. Application of mathematical concepts and skills to developing mathematical models and problems solving emphasized. Credit not awarded for this course and Math 113. 4 lec, 1 lab. Lancaster campus only.

118 Elementary Applied Mathematics (4)

Prereq: 117 or 2 yrs h.s. algebra. Topics from trigonometry and analytic geometry including trigonometric functions and their graphs, vectors and oblique triangles, trigonometric identities, j-operator, straight lines, conic sections, and translation of axes. Application of mathematical skills to developing mathematical models and problem solving emphasized. Credit not awarded for this course and Math 116. 4 lec, 1 lab. Lancaster campus only.

119 Elementary Applied Mathematics (4)

Prereq: 118 and perm. Intuitive approach to topics from calculus including differentiation and integration of algebraic and transcendental functions, series expansion of functions, and differential equations. Application of mathematical concepts and skills to developing mathematical models and problem solving emphasized. Course designed for students pursuing A A degree in industrially related technology at Lancaster campus and not recommended for others. Credit not awarded for this course and Math 163A or 263A. 4 lec, 1 lab. Lancaster campus only.

120 Elementary Topics in Mathematics (5)

Prereq: 2 yrs h.s. math. Emphasis on number system and related properties. Primarily for majors in elementary education and related fields. Does not apply to Arts and Sciences natural science requirement.

121 Elementary Topics in Mathematics (5)

Prereq: 2 yrs h.s. math. Topics include algebra, geometry, statistics, and probability. Primarily for majors in elementary education and related fields. 120 is not a prerequisite. Does not apply to Arts and Sciences natural science requirement.

130 Plane Analytic Geometry (3)

Prereq: 113, or equiv. May be taken concurrently with 116. Straight lines, circles, conic sections, functions, and graphing of functions studied.

151 Mathematics: An Everyday Tool (5)

Prereq: 2 yrs h.s. math. Applications of elementary math to day-to-day problems. Special emphasis on consumer math such as compound interest, mortgages, and installment buying. Elementary probabilities and statistics with applications. Scientific calculator required. Does not apply to Arts and Sciences natural science requirement.

163A Introduction to Calculus (4)

Prereq: 2 yrs h.s. math or 113 or equiv. Presents survey of basic concepts of calculus. For students who want introduction to calculus but do not need depth of Math 263 ABC. Note: Not open for credit to students who have credit for Math 263 A. Students strongly urged to come to department office for advice in attempting transfer from 163 sequence to 263 sequence.

163B Introduction to Calculus (4)

Prereq: 163A. Continuation of 163A. Note: Not open for credit to students who have credit for Math 263B. Students strongly urged to come to department office for advice in attempting transfer from 163 to 263 sequence.

Note: Following 3 courses (207, 214, 230) primarily intended for prospective mathematics majors to introduce them to some mathematical theory at elementary level.

207 Introduction to Number Theory (5)

Prereq: 113, or 4 yrs h.s. math. Introduction to one of simplest yet most challenging branches of mathematics. Topics include mathematical induction, prime factorization, Euclidean algorithm, Diophantine equations, congruences, and divisibility.

211 Elementary Linear Algebra (5)

Prereq: 113, or 4 yrs h.s. math. Emphasis on elementary matrix algebra. Matrix as array. Elementary row operations. Invertible matrices and systems of linear equations. Vector spaces and linear dependence and independence of vectors. Basis and dimension. Determinants.

214 Elementary Abstract Algebra (5)

Mappings. Relations. Definitions and examples of groups. Groups of rotations. Cyclic groups. Lagrange's Theorem. Fields. Polynomials over fields.

230 Foundations of Geometry (5)

Prereq: 113, or 4 yrs h.s. math, or perm of math dept. Introduction to axiomatic mathematics via 2 finite geometries and variety of interpretive models. Develops plane Euclidean and non-Euclidean geometries

in rigorous fashion from modified Hilbert axiom system.

250A Finite Mathematics (5)

Prereq: 2 yrs h.s. math. Set theory; logic; vectors and matrices; linear programming. Not counted toward math minor or major.

250B Finite Mathematics (5)

Prereq: 2 yrs h.s. math. Elementary probability and statistics.

263A Analytic Geometry and Calculus (5)

Prereq: 113, and 130 or 4 yrs h.s. math or perm of math dept. 263A-B-C is a basic introduction to calculus with emphasis on techniques and their applications. Topics covered: functions and limits, differentiation and integration, analytic geometry, vectors, transcendental functions, polar coordinates, solid analytic geometry, partial differentiation, multiple integrals, infinite series. NOTE: Not open for credit to students who have credit for both Math 163A and B. Students strongly urged to come to department office for advice in attempting a transfer from 163 sequence to 263 sequence.

263B Analytic Geometry and Calculus (5)

Prereq: 263A or 163B or equiv, and 116. Continuation of 263A. See 263A for description.

263C Analytic Geometry and Calculus (5)

Prereq: 263B. Continuation of 263A-B. See 263A for description.

297T Mathematics Tutorial (1-15)

(fall) Special program for students of unusual ability.

298T Mathematics Tutorial (1-15)

Prereq: 297T. (winter) Continuation of 297T. See 297T for description.

299T Mathematics Tutorial (1-15)

Prereq: 298T. (spring) Continuation of 297T and 298T. See 297T for description.

300 History of Mathematics (5)

Prereq: math major, jr, sr rank. Survey of main lines of mathematical development in terms of contributions made by great mathematicians.

320 Teaching of Mathematics in Secondary School (5)

Prereq: 214, 230 and jr rank. Orientation to professional mathematics education and topics related to teaching of mathematics on secondary school level. Not counted toward math major or minor.

333 Elementary Projective Geometry (5)

Prereq: 230 or perm. Topics in projective geometry.

340 Differential Equations (5)

Prereq: 263C. Ordinary differential equations and related topics.

360 Intermediate Analysis (5)

Prereq: 263C. Rigorous study of limits, continuity, and differentiability of functions of 1 real variable.

397T Mathematics Tutorial (1-15)

(fall) Special program for students of unusual ability.

398T Mathematics Tutorial (1-15)

Prereq: 397T. (winter) Continuation of 397T. See 397T for description.

399T Mathematics Tutorial (1-15)

Prereq: 398T. (spring) Continuation of 397T and 398T. See 397T for description.

406 Foundations of Mathematics (5)

Introductory topics in set theory and axiomatic development of real number system.

407 Number Theory (5)

Prereq: 207, 263C. Topics in number theory.

410 Matrix Theory (5)

Prereq: 263C. Matrix algebra, matrix solutions of linear equations, linear dependence and independence, rank and equivalence, determinants, eigenvalues, and eigenvectors. Intended primarily for engineering and science students and not recommended for persons who have taken 211.

411 Linear Algebra (5)

Prereq: 211 or 410. (fall) Vector spaces and linear transformations, characteristic values, quadratic forms, dual spaces, normal forms, and Jordan canonical form.

413A Introduction to Modern Algebra (5)

Prereq: 263C (211 or 411 recommended). (winter) Groups, permutation groups, subgroups, normal subgroups, quotient groups. Conjugate classes and class equation formula and its applications to p-groups. Fundamental theorem on homomorphisms.

413B Introduction to Modern Algebra (5)

Prereq: 413A. (spring) Fundamental theorem on finite abelian groups and its consequences. Cauchy theorem and first Sylow theorem. Polynomial rings. UFD and Euclidean domains. Maximal ideals. Algebraic extensions and splitting fields. Fundamental theorem of Galois theory.

439 Topics in Geometry (1-5)

Prereq: perm. When demand is sufficient course in some phase of geometry will be offered under this number. May be repeated for credit up to 10 hrs.

440 Vector Analysis (5)

Prereq: 263C. Vector algebra and its applications. Vector calculus and space curves. Scalar and vector fields, gradient, divergence, curl, and Laplacian. Line and surface integrals, Divergence theorem, Stokes' theorem, and Green's theorem.

441 Fourier Analysis and Partial Differential Equations (5)

Prereq: 340. Representation of functions as sums of infinite series of trigonometric functions, Bessel functions, Legendre polynomials, or other sets of orthogonal functions. Use of such representations for solution of partial differential equations dealing with vibrations, heat flow, and other physical problems.

442 Theory of Linear Programming and Nonlinear Programming (5)

Prereq: 211 or 410, computer programming experience is desirable. Minimization of functions subject to equality and inequality constraints, Kuhn-Tucker theorem, algorithms for function minimization, such as steepest descent and conjugate gradient and penalty function methods. (Not a course in computer programming.)

444 Introduction to Numerical Analysis (5)

Prereq: 263C, 340, and CS 253. Polynomial interpolation and approximation; numerical integration and differentiation; numerical solution to differential

equations; numerical methods for matrix inversion, determination of eigenvalues, and solutions of systems of equations.

450A Theory of Statistics (5)

Prereq: 263C (Some students find 250B also helpful). (fall) Probability distribution of 1 and several variables; conditional probability and independence; moment generating functions; central limit theorem.

450B Theory of Statistics (5)

Prereq: 450A. (winter) Sampling theory, estimation of parameters, confidence intervals, analysis of variance, correlation, and testing of statistical hypotheses.

450C Theory of Statistics (4)

Prereq: 450B. (spring) Topics in statistics.

460A Advanced Calculus (5)

Prereq: 360. (fall) Critical treatment of functions of single variable. Emphasis on topics not treated in 360, such as compactness, nested intervals, deeper properties of continuous functions, Riemann-Stieltjes integration, and uniform convergence.

460B Advanced Calculus (5)

Prereq: 460A. (winter) Primarily devoted to study of differential calculus in n-space. Topics include review of inner product spaces and linear transformations, elementary topology of the plane, limits and continuity of functions of several variables, directional derivation, differential, chain rule, and implicit function theorem.

460C Advanced Calculus (5)

Prereq: 460B. (spring) Primarily devoted to study of integral calculus in n-spaces. Riemann-Darboux integral, Jordan content, iterated integrals, transformation of integrals, differential forms and their integrals.

470 Applied Complex Variables (5)

Prereq: 263C. Analytic and harmonic functions, Cauchy integral and residue theorems, contour integration, Taylor and Laurent expansions, conformality, and linear transformations with applications.

480A Elementary Point Set Topology (5)

Prereq: 360. (winter) Topology of Euclidean spaces and general metric spaces.

480B Elementary Point Set Topology (5)

Prereq: 480A. (spring) Introduction to general topological spaces.

490 Selected Topics in Mathematics (1-5)

Prereq: perm of instructor and chairman. When demand is sufficient, course in some phase of mathematics will be offered under this number. (May be repeated for credit.)

491 Studies in Mathematics (1-15)

Prereq: 6 hrs of 400-level courses, sr rank or jr rank in Honors Tutorial College, or perm of chairman and instructor. Selected topics in mathematics studied under guidance of instructor particularly interested in field. (May be repeated for credit.)

497T Mathematics Tutorial (1-15)

(fall) Special program for students of unusual ability.

498T Mathematics Tutorial (1-15)

Prereq: 497T. (winter) Continuation of 497T. See 497T for description.

499T Mathematics Tutorial (1-15)

Prereq: 498T. (spring) Continuation of 497T and 498T. See 497T for description.

MEDICAL TECHNOLOGY

See Zoology.

MENTAL HEALTH TECHNOLOGY

All of these courses must be taken in sequence and are available only to those students who have been admitted to the AAS program in mental health technology.

101 Introduction to Mental Health Work (3)

Prereq: admission to program. Orientation to field of mental health work. History, definitions, current concepts, and roles of various workers in field reviewed and discussed. Aspects of work with patients and agencies treated through field trips.

112 The Helping Relationship (3)

Prereq: 101. Didactic and experiential study of use of 2-person relationship to promote personal growth and development of clients. Self-awareness, identification of basic helping skills, and practice in application of skills emphasized.

122 Introduction to Social Casework (3)

Prereq: 112. Covers theory and methods of casework, interviewing and counseling techniques, and case recording. Provides direct contact with patients under supervision of trained personnel.

201 Activity Therapies (3)

Prereq: 122. Survey of objectives, materials, and techniques of various ancillary therapies. Students become familiar with organization, content, and application of activity programs for various age levels in both hospital and agency settings.

221 Practicum in Mental Health I (10)

Prereq: 201. First of 3-qtr sequence involving field work in agency or institutional setting and on-campus laboratory experience. Orientation to agency structure and procedures and service to clients under supervision of professional staff.

222 Practicum in Mental Health II (10)

Prereq: 221. Continuation of field placement and laboratory. Increased direct service to clients in agency setting.

223 Practicum in Mental Health III (10)

Prereq: 222. Continuation of supervised work experience in field placement and on-campus laboratory.

231 Seminar in Mental Health (3)

Prereq: 222. Emphasis on development of skills in presentation, handling of problems, and sharing of problems with professional staff and with others involved in treatment process. Includes development of skills in referring patients to and utilizing appropriate community resources.

MILITARY SCIENCE

The Army Reserve Officers' Training Corps (ROTC) program offers two curricula of military science instruction leading to commission as a second lieutenant in the U.S. Army. The military science program is an elective program open to both men and women. Students participating in this program take a military science course along with the normal courses leading to a baccalaureate degree in a degree-granting field. The purpose of the program is to place outstanding young men and women in the active Army and the Army reserve component forces (National Guard and U.S. Army Reserve). In selected cases students are awarded Regular Army commissions.

There are two programs of instruction: the traditional four-year ROTC program and a special late-entry two-year program.

The four-year program consists of a basic course and an advanced course. The basic course requires successful completion of military science 100- and 200-level courses during the freshman and sophomore years. The advanced course requires successful completion during the last two academic years of military science 300- and 400-level courses. Average contact time between students and instructors is two hours of classroom instruction each week and approximately ten hours of leadership laboratory each quarter. No military obligation is incurred for the first two years of the program. Following completion of the first two years, qualified students are accepted for the advanced program by entering the U.S. Army Reserve and signing an ROTC contract which obligates the student to complete the program of instruction and accept a commission in the U.S. Army, if qualified. Each advanced course student receives a subsistence allowance of \$100 each academic month for the two school years in which he or she is enrolled in the advanced course. All advanced course students must attend a five-week summer training camp. Airborne training is also offered for qualified students at the Army Parachute School at Fort Benning, Georgia. (See MSc 330 for complete camp description.)

The two-year ROTC program is offered for students who transfer from colleges which do not offer ROTC, or students whose academic courses do not permit military science during their first two academic years. Eligibility for the two-year program is determined by successful completion of a special six-week summer basic camp. Attending the basic camp does not require the student to continue in the program. Upon successful completion of the basic camp, students are eligible to enter the advanced ROTC course, if accepted by the professor of military science. This program is open to both women and men. Applicants should apply during February and March of the school year. Applicants must have two academic years remaining at Ohio University. Part or all of that time may be at the graduate level. (See MSc 230 for complete course description.)

Students with honorable prior military service of one year or more in any of the armed forces may be eligible to enter directly into the advanced course without attending the Basic Camp or taking the freshman or sophomore ROTC courses.

Students with two or more years of junior ROTC at the high school level may be eligible to receive placement credit for part or all of the basic (freshman and sophomore level) ROTC courses.

101 Introduction to Military Science (2)

Broad overview of military science curriculum, role

of Army officer, commissioning, and career programs of military. Student will take Army physical fitness test and fire small-bore military rifle.

102 Leadership and Management I (2)

Principles and techniques of leadership including basic qualities of leader and special problems of military leadership. Psychological, physiological, and sociological factors affecting human behavior and proven techniques of military leadership. Meets 2 hrs each wk.

103 Basic Map Reading and Orienteering (2)

Fundamental map reading and orienteering techniques with emphasis on development of land navigation skills through practical exercises in field.

201 Advanced Map Reading (2)

Prereq: 103 or equiv. Continuation of MSc 103. Advanced map reading/land navigation and aerial photograph interpretation techniques as applied to military maps and aerial photographs. Additional development of orienteering skills. Includes 4-6 hrs of practical exercises in field situation, and review of basic map reading skills.

202 Methods of Military Instruction (2)

Educational psychology and practical application of techniques in planning and presenting instruction, with emphasis on military methods. Meets 2 hrs each wk.

203 Leadership and Management II (2)

Interdisciplinary approach to study of organizational leadership and serves as major step in student's education in leadership process. Provides basis for understanding relationship of individual differences and leadership process, group dynamics and their relationship to leadership process, and impact of leader's behavior on leadership process. Meets 2 hrs each wk.

230 Basic Army ROTC Summer Camp (0)

6-wk summer training camp that qualifies students for direct entry to advanced ROTC course. Covers military-oriented subjects which prepare students for jr and sr level military science courses. Instruction in basic military skills such as rifle marksmanship, small unit tactics, survival, orienteering, rappelling, first aid, and physical conditioning. Camp is rigorous and demanding. Applications accepted from sophs, jrs, srs, and grad students with 2 academic yrs remaining. Conducted at Fort Knox, KY during a 6-wk period in June and July. Transportation to camp and return transportation to home of record paid by Army. Uniforms, meals, and housing provided by Army. Students may apply for special 2-yr ROTC scholarship at camp. Participants paid by Army.

301 Introduction to Tactics (2)

Small unit tactics, emphasizing importance of organization of basic military teams and their employment. Meets 2 hrs each wk.

302 Military Justice (2)

Orientation of military justice system as outlined within U.S. Uniform Code of Military Justice. Examines military law, discipline, behavior modification, and nonpunitive actions as management tools of military leader. In addition, other aspects of unit administration (supply, maintenance, and personnel affairs) introduced.

303 Platoon Level Tactics (2)

Operational methods, leadership techniques, organization, weapons systems, and communications

systems used in tactical employment of combat units. Emphasis on offensive aspects of military operations. Meets 2 hrs each wk.

310A Advanced Leadership Laboratory (0)

Prereq: enrollment in military science advanced course. (fall) Development of proficiency and leadership potential by participation in planning and conducting tactical training, drill and ceremonies, and other military subjects. Meets once each wk for 2 hrs.

310B Advanced Leadership Laboratory (0)

Prereq: enrollment in advanced course. (winter) Continuation of 310A. See 310A for description. Meets 2 hrs each wk.

310C Advanced Leadership Laboratory (0)

Prereq: 310A. (spring) Continuation of 310A-B. See 310A for description. Meets 2 hrs each wk.

330 Advanced Army ROTC Summer Camp (0)

Prereq: enrollment in Army ROTC commissioning program. 6-wk field training session conducted at Army installation; normally scheduled between jr and sr yrs. Includes instruction in techniques of leadership and basic military skills. Students receive extensive evaluations based on performance in various leadership positions at camp. Transportation to and from camp paid by Army. Uniforms, meals, and housing at camp provided by Army. Students receive approximately \$500 military pay at camp.

401 U.S. Military History I (2)

Prereq: Hist 211 or 212 or perm. Factors contributing to development of military art through selected campaigns and battles from American Revolutionary War period up to WWI. Emphasis on development and application of principles of war as recognized by the U.S.

402 U.S. Military History II (2)

Prereq: Hist 212 or 213 or perm. Analysis and evaluation of military campaigns from WWI through Vietnam. Specific campaigns and battles studied with emphasis on application and influence of principles of war.

403 World Change (2)

United States in contemporary world scene. Multi-discipline course with guest lecturers from broad variety of University departments. Includes study of other major actors in world arena. Meets 2 hrs each wk.

410A Advanced Leadership Laboratory (0)

Prereq: enrollment in military science advanced course 2nd yr. (fall) Practical experience as cadet officer in conduct of drill and ceremonies; training management; maintaining discipline, and demonstration of morale and range of factors which affect morale. Meets 2 hrs each wk.

410B Advanced Leadership Laboratory (0)

Prereq: 2nd yr advanced course. (winter) Leadership seminar and service orientation.

410C Advanced Leadership Laboratory (0)

Prereq: 410A. (spring) Continuation of 410A-B. See 410A for description.

MUSIC

APPLIED MUSIC

MUSIC EDUCATION

MUSIC HISTORY AND LITERATURE

MUSIC THEORY AND COMPOSITION

MUSIC THERAPY

INDEPENDENT STUDIES IN MUSIC

APPLIED MUSIC

Fee for private instruction for all applied music (piano, voice, organ, strings, woodwinds, brass, percussion), \$12 per quarter hour.

Note: A description of the proficiency requirements for applied music may be obtained from the School of Music.

090 Performance Laboratory (0)

Required each qtr of all undergraduate music majors and students enrolled in 101-102-103.

141 Class Piano (2)

Prereq: perm; music majors only. *M. Stewart.*

141B Class Piano (2)

Prereq: perm; for nonmusic majors. *G. Berenson.*

142 Class Piano (2)

Prereq: perm; 141; music majors only. *M. Stewart.* Continuation of 141.

142B Class Piano (2)

Prereq: perm; 141B; for nonmusic majors. *G. Berenson.* Continuation of 141B.

143 Class Piano (2)

Prereq: perm; 142; music majors only. *M. Stewart.* Continuation of 141 and 142.

143B Class Piano (2)

Prereq: perm; 142B; for nonmusic majors. *G. Berenson.* Continuation of 142B.

147 Class Voice (2)

Prereq: perm. For students enrolling in beginning voice. *M. Stephenson.*

147A Class Voice (2)

Prereq: For nonmusic majors; perm. (fall, winter) Beginning instruction in voice for nonmusic majors.

148 Class Voice (2)

Prereq: 147. Continuation of 147. See 147 for description. *M. Stephenson.*

148A Class Voice (2)

Prereq: perm; 147A; for nonmusic majors. (winter) Continuation of 147A. See 147A for description.

149 Class Voice (2)

Prereq: 148. Continuation of 147 and 148. See 147 for description. *M. Stephenson.*

149A Class Voice (2)

Prereq: 148A; for nonmusic majors. (spring) Continuation of 148A. See 148A for description.

241 Class Piano (2)

Prereq: music majors only; 143 with minimum grade of C; perm. *M. Stewart.*

241B Class Piano (2)

Prereq: 143B or perm; for nonmusic majors. *G. Berenson.*

242 Class Piano (2)

Prereq: 241 or perm; for music majors only. *M. Stewart.* Continuation of 241.

242B Class Piano (2)

Prereq: 241B or perm; for nonmusic majors. *G. Berenson.* Continuation of 241B.

243 Class Piano (2)

Prereq: 242 or perm; for music majors only. *M. Stewart.* Continuation of 241 and 242.

243B Class Piano (2)

Prereq: 242B or perm; for nonmusic majors. *G. Berenson.* Continuation of 242B.

244 Varsity Band (1)

Prereq: perm; audition. *R. Socciarelli.*

244A Marching Band (2)

Prereq: perm (audition). *R. Socciarelli.*

244B Wind Ensemble (2)

Prereq: perm (audition). *R. Socciarelli.*

244C Symphonic Band (1)

Prereq: perm (audition). *R. Socciarelli.*

245 University Chorus (1)

Prereq: perm (audition). *I. Zook.*

246 Symphony Orchestra (2)

Prereq: perm - audition.

249 Brass Choir (1)

Prereq: perm (audition). *W. Brophy.*

250 University Singers (2)

Prereq: perm (audition). *I. Zook.*

250B Ohio University Chorale (1)

Prereq: perm (audition). *C. Powell.*

251 Chamber Orchestra (1)

Prereq: perm (audition).

252 Opera Workshop (1-4)

Prereq: perm (audition). *D. Stoffel.*

253 Jazz Ensemble (1)

Prereq: perm (audition). *E. Bastin.*

254A Chamber Music, Strings (1)

Prereq: strings only; perm. Participation in playing of standard string chamber literature.

254B Chamber Music, Woodwinds (1)

Prereq: woodwinds only; perm. Participation in playing of standard woodwind chamber literature.

254C Chamber Music, Brass and Percussion (1)

Prereq: brass and percussion only; perm. Participation in playing of standard brass and percussion chamber literature.

254D Chamber Music, Piano (1)

Prereq: piano only; perm. Participation in playing of standard piano chamber literature.

255 Trombone Choir (1)

Prereq: perm (audition). *R. Smith.*

- 256 Percussion Ensemble (1)**
Prereq: perm (audition). *G. Remonko.*
- 340 Voice (1-6)**
Prereq: perm. *N. Beebe, M. Stephenson, D. Stoffel, I. Zook.*
- 341 Piano (1-6)**
Prereq: perm. *G. Berenson, E. Jennings, M. Stewart, R. Syracuse.*
- 342 Harp (1-6)**
Prereq: perm. *L. Jennings.*
- 343 Organ (1-6)**
Prereq: perm. *E. Wickstrom.*
- 344 Violin (1-6)**
Prereq: perm. *H. Beebe.*
- 345 Viola (1-6)**
Prereq: perm. *H. Beebe.*
- 346 Violoncello (1-6)**
Prereq: perm. *L. Conkling.*
- 347 Double Bass (1-6)**
Prereq: perm. *C. Thompson.*
- 348 Flute (1-6)**
Prereq: perm. *K. Andrews.*
- 349 Oboe (1-6)**
Prereq: perm. *H. Niblock.*
- 350 Bassoon (1-6)**
Prereq: perm. *H. Robison.*
- 351 Clarinet (1-6)**
Prereq: perm. *D. Lewis, H. Robison.*
- 352 Alto Saxophone (1-6)**
Prereq: perm. *A. Reilly.*
- 353 Trumpet (1-6)**
Prereq: perm. *E. Bastin.*
- 354 Horn (1-6)**
Prereq: perm. *W. Brophy.*
- 355 Euphonium (1-6)**
Prereq: perm. *R. Fink, R. Smith.*
- 356 Trombone (1-6)**
Prereq: perm. *R. Fink, R. Smith.*
- 357 Tuba (1-6)**
Prereq: perm. *R. Fink, R. Smith.*
- 358 Percussion (1-6)**
Prereq: perm. *G. Remonko.*
- 451 Accompanying (1, max 3)**
E. Jennings. Basic problems in accompanying vocalists and instrumentalists — rehearsal techniques, ensemble, pedaling, balance, etc. May be repeated.
- 452 Piano Pedagogy (2)**
G. Berenson. Presentation of various teaching methods, techniques, and repertoire. Selection of teaching materials with general knowledge of various levels of ability and analysis of basic concepts of teaching in reference to purposes or objectives.
- 453 Piano Pedagogy (2)**
Prereq: 452. Continuation of 452. See 452 for description.
- 454 Piano Pedagogy (2)**
Prereq: 453. Continuation of 452 and 453. See 452 for description.
- 455 Conducting (3)**
Prereq: 203, 205. *W. Brophy, C. Powell.* Basic beat patterns, technique of baton, and use of left hand. Experience in conducting choral and small instrumental ensembles in works suitable for school groups.
- 456 Choral Conducting (3)**
Prereq: 206, 455. *C. Powell.* Specialized conducting techniques for choral groups, including experience in conducting works suitable for high school and college groups.
- 457 Instrumental Conducting (3)**
Prereq: 206, 455. *R. Socciarelli.* Experience in conducting from full score; includes band and orchestral works suitable for high school groups.
- 458A Solo Repertoire of String Instruments (1)**
Prereq: 323, perm. Survey of student's major performance instrument literature.
- 458B Solo Repertoire of Woodwind Instruments (1)**
Prereq: 323; perm. Survey of student's major performance instrument literature.
- 458C Solo Repertoire of Brass and Percussion Instruments (1)**
Prereq: 323; perm. (spring) Same as 458B.
- 458D Solo Repertoire of Vocal Music (1)**
Prereq: 323; perm. (fall, winter, spring) Same as 458C.
- 459A String Instrument Pedagogy (2)**
Prereq: perm. Teaching techniques of string instruments and use of selected materials for various levels of ability. Includes practical experience in teaching.
- 459B Woodwind Instrument Pedagogy (2)**
Prereq: perm. (fall, winter, spring) Teaching techniques of woodwind instruments and use of selected materials for various levels of ability. Includes practical experience in teaching.
- 459C Brass and Percussion Instrument Pedagogy (2)**
Prereq: perm. (spring) Teaching techniques of brass and percussion instruments and use of selected materials for various levels of ability. Includes practical experience in teaching.
- 459D Vocal Pedagogy (2)**
Prereq: perm. Teaching techniques of voice and use of selected materials for various levels of ability. Includes practical experience in teaching.
- 497 Recital (0)**
Prereq: perm, jr and sr only. For jr or sr planning to present a public recital.

MUSIC EDUCATION

160 Music Fundamentals (3)

For elementary education majors only.

161 Music for the Classroom Teacher (3)

Prereq: 160 with minimum grade of C. Methods of teaching elementary music. For elementary education majors only.

261 String Methods and Materials (2, max 6)

Prereq: soph rank in music education/music therapy. Instruction in stringed instruments with emphasis on teaching techniques, methods and materials.

262 Music in Early Childhood (3)

Prereq: EdEd 200 and Mus 160 or perm. Methods and materials for esthetic development of preschool children. Exploration of reading readiness and vocal, rhythmic, listening activities.

263 Wind and Percussion Methods and Materials (2, max 12)

Prereq: soph rank in music education/music therapy. Instruction in wind and percussion instruments with emphasis on teaching techniques, methods, and materials.

363 Methods and Materials of Instrumental Music (3)

Prereq: jr rank in music education/music therapy. Study of procedures for organization, implementation, and administration of instrumental music and survey of materials used in teaching instrumental music in public schools.

364 Secondary School Vocal Techniques and Materials (3)

Prereq: jr rank in music education/music therapy. (winter) Literature and rehearsal techniques for high school choral groups.

365 Secondary School Vocal Techniques and Materials (3)

Prereq: 364 with minimum grade of C. (spring) Continuation of 364. See 364 for description.

366 Teaching of Music in the Elementary Grades (3)

Prereq: jr rank in music education/music therapy. (winter) Materials and methods for elementary music. For music majors only.

367 Materials and Trends in Elementary Music Teaching (3)

Prereq: 366 with minimum grade of C. (spring) Continuation of 366.

463 Scoring for Bands (3)

Prereq: sr rank in music education/music therapy. (spring) Writing techniques for marching and concert bands.

464 Marching Band Techniques (3)

Prereq: sr rank in music education/music therapy. (spring) Techniques for preparation of high school and college marching band performance.

468 General Music in the Junior High School (3)

Prereq: sr rank in music education/music therapy, perm. (fall) Materials and methods; listening program; changing voice.

469 Vocal Methods and Materials for the Junior and Senior High School (4)

Prereq: sr rank in music education, instrumental emphasis only. Organization, methods, and materials for secondary general music and vocal ensembles.

476A Music Clinic-Workshop (1-4)

Prereq: sr rank in music education/music therapy. (summer) May be repeated for credit, but credit may be applied to degree electives only once.

476B Elementary Music Workshop (1-4)

Prereq: sr rank in music education/music therapy. (summer) May be repeated for credit, but credit may be applied to degree electives only once.

MUSIC HISTORY AND LITERATURE

120 Introduction to Music Literature (2)

Prereq: for nonmusic major. Development of listening skills for understanding elements of musical style in historical perspective and significance of music as fine art.

121 Introduction to Baroque and Classic Music (2)

Prereq: 120 or perm, for nonmusic majors. (fall) Selected works from music of Baroque and Classic periods.

122 Introduction to the Music of the Romantic Period (2)

Prereq: 120 or perm, for nonmusic majors. (winter) Selected works from music of Romantic period.

123 Introduction to 20th Century Music (2)

Prereq: 120 or perm, for nonmusic majors. (spring) Selected works from music of 20th century.

321 History and Literature of Music (3)

Prereq: 103. History of music with survey of musical literature to 1600.

322 History and Literature of Music (3)

Prereq: 321. History of music with survey of musical literature, 1600-1750.

323 History and Literature of Music (3)

Prereq: 322. History of music with survey of musical literature, 1750 to present.

421A The Literature of Vocal Music (3)

Prereq: 323. (fall, 1979).

421B The Literature of Piano Music (3)

Prereq: 323. (winter, 1980).

421C The Literature of Chamber Music (3)

Prereq: 323. (spring, 1980).

421D The Literature of Orchestral Music (3)

Prereq: 323. (fall, 1980).

421E The Literature of Organ Music (3)

Prereq: 323. (winter, 1981).

421F The Literature of Opera (3)

Prereq: 323. (spring, 1981).

427 Folk Music in the United States (3)

Introduction to selected types of folk music in U.S.

428 Jazz History (3)

Study of various musics collectively known as jazz.

MUSIC THEORY AND COMPOSITION

101 Music Theory (4)

Prereq: music theory placement examination; music majors only. Melodic, harmonic, and rhythmic principles of music and its notation. 5 days per wk.

101A Music Theory (4)

Prereq: nonmajor only, ability to read music. Melodic, harmonic, and rhythmic principles of music and its notation. 5 days per wk.

102 Music Theory (4)

Prereq: 101. Continuation of 101. See 101 for description.

102A Music Theory (4)

Prereq: 101A. Continuation of 101A. See 101A for description.

103 Music Theory (4)

Prereq: 102. Continuation of 101 and 102. See 101 for description.

103A Music Theory (4)

Prereq: 102A. Continuation of 102A. See 102A for description.

201 Harmony (3)

Prereq: music majors only, 103 (minimum grade of C). Harmonic and contrapuntal practices of 18th, 19th, and 20th centuries, including analysis and composition in smaller forms.

202 Harmony (3)

Prereq: 201. Continuation of 201. See 201 for description.

203 Harmony (3)

Prereq: 202. Continuation of 201 and 202. See 201 for description.

204 Dictation and Sight Singing (3)

Prereq: music majors only, 103 (minimum grade of C or perm). Should be taken concurrently with 201.

205 Dictation and Sight Singing (3)

Prereq: 204 with a minimum grade of C. Continuation of 204.

206 Analysis of Musical Form (3)

Prereq: 202. (spring) Harmonic and structural analysis of larger forms. Should be taken concurrently with 203. 4 days per wk.

304 Instrumentation (3)

Prereq: 203. (fall) Technical characteristics of instruments of band and orchestra. Arranging for small ensembles.

305 Orchestration (3)

Prereq: 304. (winter) Scoring for instrumental ensembles with emphasis on intra- and cross-choir scoring. Writing of transcriptions and score reductions.

306 Orchestration (3)

Prereq: 305. (spring) Continuation of 305. See 305 for description.

310 Composition (2)

Prereq: 203, 205, 206. Introduction to 20th century compositional techniques. Writing smaller compositions.

311 Composition (2)

Prereq: 310. Continuation of 310. See 310 for description.

312 Composition (2)

Prereq: 311. Continuation of 310 and 311. See 310 for description.

401 Keyboard Harmony (3)

Prereq: 203. Concentration on functional aspects of

keyboard playing: sight reading, accompanying, transposition, harmonization of melodies, improvisation, keyboard harmony.

402 Styles I (3)

Prereq: 203, 205, 206 with minimum grade of C in each. Analysis of post-Romantic music.

403 Styles II (3)

Prereq: 203, 205, 206 with minimum grade of C. Analysis of 20th century music.

404 Styles III (3)

Prereq: 203, 205, 206 with minimum grade of C. Analysis of 15th century music.

405 Jazz Harmony I (3)

Prereq: 203, 205, perm. keyboard skills as determined by instructor. Harmonic vocabulary, notational systems, and chord progressions in traditional jazz.

406 Jazz Harmony II (3)

Prereq: 405. Continuation of 405. See 405 for description.

407 Counterpoint I (3)

Prereq: 203, 205. (fall) Analysis and composition in sacred style of 16th and 17th centuries.

408 Counterpoint II (3)

Prereq: 407. (winter) Analysis and composition of 18th century contrapuntal forms.

409 Counterpoint III (3)

Prereq: 203, 205. (spring) Analysis and composition of 19th and early 20th century contrapuntal styles.

410A Composition (2)

Prereq: 312. Original instrumental and vocal compositions. Investigation of experimental compositional techniques.

410B Composition (2)

Prereq: 312, 413. Original composition in electronic medium for tape alone, live electronic instruments, or conventional instruments with electronic tape.

411 Composition (2)

Prereq: 410. Continuation of 410. See 410 for description.

412 Composition (2)

Prereq: 411. Continuation of 410 and 411. See 410 for description.

**413 Fundamentals of Electronic Music
Composition (2)**

Prereq: 103, perm. Techniques, theories, and esthetics of electronic music. Development of skills as they apply to voltage-controlled synthesizer and tape splicing, and manipulation techniques.

414 Senior Practicum in Theory (2)

Prereq: sr rank. Preparation of theory major's senior project.

MUSIC THERAPY

181 Introduction to Music Therapy (2)

Prereq: Psy 101. (fall, spring) Introduction to music therapy through assigned reading, classroom lectures, clinical observation, and field trips.

281 Social and Recreational Instruments and Materials (3)

Prereq: perm or 181. (fall, winter) Accompanying instruments and music activities to accomplish specific therapeutic objectives in mental health settings.

380 Clinical Experience I (2)

Prereq: 181. Selected field experience in approved mental health facilities. Credit without grade upon satisfactory completion.

381 Music Therapy I: Background of Music Therapy (3)

Prereq: jr rank in music therapy. (fall) Historical review, survey of current literature and trends in music therapy, and preclinical fieldwork.

382 Music Therapy II: The Influence of Music on Behavior (3)

Prereq: 381 with minimum grade of C. (winter) Theoretical bases for influence of music on behavior.

383 Music Therapy III: Problems and Procedures (3)

Prereq: 382 with minimum grade of C. (spring)

480 Clinical Experience II (4)

Prereq: 489, sr rank in therapy. 6 months as full-time music therapy intern at approved clinical training facility beginning after completion of sr yr in music therapy.

481 Psychological Foundations of Music I (3)

Prereq: 202, 5 hrs of psychology. (spring) Investigation of research methods and their application to behavioral musical responses.

482 Psychological Foundations of Music II (3)

Prereq: 481. (winter) Basic study of acoustics, ear and hearing, and psycho-socio-physiological process involved in musical behavior.

489 Senior Practicum in Music Therapy (1-3)

Prereq: 382 and perm. Field work in music therapy paired with individual and seminar supervision.

INDEPENDENT STUDIES IN MUSIC

491 Acoustics for Musicians (3)

Prereq: 203, 205, perm. Nature of vibration and characteristics of sound waves. Room, concert hall, and stadium acoustics and vibration of strings, rods, plates, and air columns studied as they apply to music teaching and performance.

492 Acoustics for Musicians (3)

Prereq: 491. Continuation of 491. Temperament, intonation, psychology of music and electronic analyzing, recording, reproducing, and synthesizing of sound.

498 Independent Projects (1-6)

Prereq: perm.

499 Independent Readings in Music (1-12)

Prereq: perm.

NURSING

BACCALAUREATE PROGRAM

***300 Concepts of Health Care I (5)**

Focuses on levels of wellness and maintenance of health in individuals and groups.

***302 Concepts of Health Care VII (5)**

Covers transition from technical to professional level of practice.

***320 Concepts of Health Care II (5)**

Focuses on restoration of health or reintegration of health.

***330 Concepts of Health Care III (5)**

Deals with man's adaptive process to distress and strain.

***340 Concepts of Health Care IV (5)**

Focus on family-centered community nursing.

***360 Concepts of Health Care V (5)**

Focuses on quality assurance practices and their implications for nursing leadership.

380 Concepts of Health Care VI (5)

Prereq: 320. Focuses on furthering competencies in clinical nursing.

390 Concepts of Health Care XIV (5)

Covers teaching strategies in meeting individual and group learning needs.

395 Concepts of Health Care XVII (5)

Covers transactions in gerontological nursing.

400 Concepts of Health Care VIII (5)

Prereq: 330. Focuses on furthering nursing competencies in coping with stress and complex emotional and mental behaviors.

452 Concepts of Health Care IX (5)

Prereq: 360; statistics. Focuses on dynamics of nursing leadership and continuing concepts of nursing research.

454 Concepts of Health Care X (5)

Prereq: 320. Focuses on emergency and intensive care nursing.

456 Concepts of Health Care XI (5)

Covers nursing care of people with long-term handicapping conditions.

458 Concepts of Health Care XII (5)

Focuses on impact of illness on individual.

460 Concepts of Health Care XIII (5)

Prereq: 360. Principles of nursing administration in community hospitals and other community health care agencies.

464 Concepts of Health Care XV (5)

Presents legal aspects of nursing.

466 Concepts of Health Care XVI (5)

Prereq: 340. Presents continuing concepts and practices of community nursing.

470 Concepts of Health Care XVIII (5)

Presents aspects of rural community nursing.

490 Concepts of Health Care XIX (1-5)

Independent study course.

*Required.

NURSING

ASSOCIATE DEGREE PROGRAM

The following courses for the AAS program in nursing are available only on the Zanesville campus.

101 Nursing I (5)

Prereq: admission to OUZ Nursing Education Program. Develop basic nursing skills and use of nursing process system to enable individual to maintain or regain ability to meet daily living needs. Medical asepsis and safety, nurse-patient activity, vital signs, normal nutrition and elimination, and basic interviewing techd.

102 Nursing II (5)

Prereq: 2.0 average or better in 101. Continued development of basic nursing skills. Surgical asepsis, skills to assist patients to meet daily living needs, therapeutic interviewing techniques, terminal life experience, and medication administration considered.

103 Nursing III-A (6)

Prereq: 2.0 average or better in 102. Study nursing care approaches for pathophysiologic conditions of respiratory, gastro-intestinal, and endocrine systems. Nursing responsibilities for diagnostic tests, medical-surgical treatment, pharmacology, and dietary modifications as applicable to these systems included.

104 Nursing III-B (6)

Prereq: 2.0 average or better in 103 and total 2.0 average or better. Developing nursing care approaches for pathophysiologic conditions of cardiovascular system. Offers opportunity for continuity of care in community hospitals and health agencies.

201 Nursing IV (6)

Prereq: 2.0 or better in nursing courses of preceding qtr. Family-life cycle presented as broad concept with emphasis on nursing care of maternity patient and normal newborn infant. Pregnancy viewed as natural and normal process; however, specific deviations presented. Learning opportunities offered in hospital setting, doctors' offices, and in other community facilities.

202 Nursing V (6)

Prereq: 2.0 or better in each nursing course of preceding qtr. Child considered from neonatal period through adolescence with emphasis on his or her place in family, on family unit as part of community. Nursing responsibilities and application of scientific principles as applied to child in hospital, clinic, and home identified and adapted to needs of each age group. Although major concentration placed on study of individual through adolescence, specific medical-surgical nursing situations which similarly affect adults and children will be included.

203 Nursing VI (6)

Prereq: 2.0 or better in each nursing course of preceding qtr. Assist nursing students to develop concepts of mental health, understanding of behavior disorders and mental illness, precipitating factors, prevention, treatment modalities, and of individuals who have difficulty in adapting to stress of everyday life. Emphasis on potential therapeutic role nurse can make in assessment, intervention, and in providing support in various environments.

204 Nursing VII (6)

Prereq: 2.0 or better in each nursing course of previous qtr. One of series of courses dealing with care of medical-surgical patients. Student has opportunity to develop understanding of physical, mental, emotional, and spiritual components of health and disease. Learning experiences selected that permit student to learn preventive, rehabilitative, and curative aspects of disease. Through use of various resources, students will observe and/or care for patients of varying age levels who have common health deviations of reproductive, genitourinary, and sensory systems.

205 Nursing VIII (9)

Prereq: 2.0 or better in each nursing course of previous qtr. Advanced medical-surgical nursing, dealing with care of adults with disorders of nervous and musculoskeletal systems. In addition, emphasis placed on nurse's responsibility in world health problems, emergency, or disaster situations. Experience provided in leadership in preparation for employment.

206A Trends and Issues in Nursing (1)

(fall) Exploration of concerns of nursing profession past, present, and future. Relationships of technical nurse to health professions and community considered. Future personal development of individual technical nurse discussed.

206B Trends and Issues in Nursing (1)

(winter) Continuation of 206A. See 206A for description.

206C Trends and Issues in Nursing (1)

(spring) Continuation of 206A and 206B. See 206A for description.

OHIO PROGRAM OF INTENSIVE ENGLISH

Credit hours listed for OP1E 40, 45, 50, 55, 60 are not applicable to degree requirements. For English for nonnative speakers applicable to degree requirements, see 150F, 172F.

40 Intensive English as a Foreign Language (15)

Full-time intensive study of English as foreign language for students beginning at elementary level. Normally followed by 45. 5 classroom practice and recitation hrs daily. Primary emphasis on developing mastery of spoken English.

45 Intensive English as a Foreign Language (15)

Prereq: 40. Full-time intensive study of English as foreign language. Follows 40 to constitute a 20-wk intensive course. 5 hrs of classroom practice and recitation daily. Practice of spoken English continues, but primary emphasis shifts to mastery of usage of written English. In addition to scheduled EFL class hrs, student devotes up to 6-8 hrs per wk to auditing appropriate University classes.

50 Intensive English as a Foreign Language (15)

Prereq: intermediate proficiency level. Full-time intensive study of English as foreign language for students beginning at intermediate level. Not a sequence with either 40 or 45. 5 hours of classroom practice and recitation daily. Emphasis on both spoken and written English usage. In addition to sched-

uled EFL class hrs, student devotes up to 6-8 hrs per wk to auditing appropriate University classes.

55 Semi-intensive English as a Foreign Language (12)

Prereq: advanced proficiency level. (fall, winter, spring, summer) Semi-intensive supplemental study of English as a foreign language at advanced level for students who may enroll in 1 academic course concurrently. 3 hrs of classroom practice and recitation daily. Classroom activity includes both spoken and written English usage, but emphasis on written language practice. May follow either 45 or 50.

60 Supplemental English as a Foreign Language (8)

Prereq: advanced proficiency level. Semi-intensive supplemental study of English as foreign language at advanced level for students enrolled in part-time academic program. 2 hrs of classroom practice and recitation daily. Classroom activity includes both spoken and written English usage, but emphasis on written language practice. May follow either 45 or 50 or 55.

PHILOSOPHY

The major requirement for the AB degree consists of a minimum of 40 hours, including 310, 312, 320 and at least three courses numbered above 400.

There are a number of designated minor programs in philosophy for students whose major field of study is related to a specific area of philosophy. The general requirement for the philosophy minor is 25 hours, at least 20 of which must be courses numbered 200 or above. There are approved designated minors in Esthetics, Logic, Philosophy of Science, Religion, Social and Political Theory, Ethics, and History of Philosophy. For more information, contact the Philosophy Department.

Students are advised to begin the study of philosophy with a course at the 100 or 200 level. Phil 101 is a general survey. The other courses at the 100 and 200 level introduce the student to philosophy by applying it to special fields.

101 Fundamentals of Philosophy (5)

Survey of selected basic problems, concepts, and methods in philosophy.

120 Principles of Reasoning (4)

Prereq: not open to those who have had former 102. Use of evidence in establishing reliable conclusions.

130 Introduction to Ethics (4)

Prereq: not open to those who have had former 103. Discussion of classic and/or modern philosophical views of human values, ideals, and morality. Provides introductory survey of some main problems, concepts, and results of ethics including selected philosophers of past and present.

160 Introduction to Religion (3)

Definition of religion and analysis of its various aspects including ritual, social, experiential, and symbolic.

216 Philosophy of Science Survey (3)

Nontechnical survey of types, testing, and credibility of hypotheses; methods of experimental inquiry; measurement; laws, theories, and their role in explanation, concept formation.

230 Moral Problems in Medicine (5)

Prereq: soph rank. Philosophical investigation of complex moral problems engendered by modern medicine, e.g., death with dignity, human experimentation, allocation of scarce medical resources, birth defects, killing and letting die, informed consent, etc. Basic philosophical concepts underlying these problems explored, including autonomy, coercion, normality, naturalness, rights, justice, responsibility, personhood, etc.

232 Philosophy of Art (3)

Conceptual analysis of common assumptions, attitudes, theories, and ideas about arts, their criticism, and appreciation.

240 Social and Political Philosophy (4)

Introduction to major philosophical theories concerning nature of social and political communities including those offered by Plato, Aquinas, Hobbes, Locke, Mill, and Rawls. Consideration of some significant specialized problems in social and political theory including distributive justice, civil disobedience, liberty, punishment, etc.

250 Philosophy of Mind (4)

Mind-body problem; concept of self; man-machine relation; problem of other minds.

260 Philosophy of Religion (4)

Problems in nature of religion, existence, and nature of God; problem of evil, immortality, and religious language.

297T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial College students only. (fall) 1st yr tutorial studies in philosophy.

298T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial College students only. (winter) 1st yr tutorial studies in philosophy.

299T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial College students only. (spring) 1st yr tutorial studies in philosophy.

301 Introduction (3)

Prereq: not open to those who have had 101. Analysis of typical philosophical problems arising in study of nature, society, and religion for purpose of developing thoughtful and consistent intellectual perspective.

310 History of Western Philosophy: Ancient (5)

Significant ideas of representative Greek and Roman philosophers.

311 History of Western Philosophy: Medieval and Renaissance (5)

Augustine to Bruno and Campanella.

312 History of Western Philosophy: Descartes to Hume (5)

314 19th Century European Philosophy (4)

Prereq: not open to those who have had former 439. Subjects selected from French, German, and British philosophers of 19th century.

315 American Philosophy (4)

Prereq: 3 hrs above 200. Not open to those who have had former 313. Begins with transcendentalism and includes pragmatism, naturalism, and idealism.

320 Symbolic Logic I (5)

Techniques of modern symbolic logic.

330 Ethics (5)

In-depth study focusing on specific philosopher, or on type of ethical or value theory. Topics vary with instructor.

333 Philosophy of Literature (5)

Examines nature of fictional literature as differentiated from other types of writing and explores philosophical ideas within specific works of fiction, concentrating on problems of translating philosophical content into literary form, especially problems of interpretation, belief, truth, and artistic integrity.

350 Philosophy of Culture (5)

Philosophical studies of man as culture-creating being.

351 Philosophy of Language (4)

Prereq: 6 hrs. including 120 or 320. Theories of meaning and reference and their philosophical significance, relations of meaning to verification and truth, and relationship between language and concepts.

358 Existentialism (4)

Prereq: 9 hrs. Existential thought from Kierkegaard to Camus stressing such themes as freedom, existence, despair, authenticity, alienation, death, and revolt against system.

361 Old Testament (5)

Background and development of Old Testament; its philosophical, moral, and religious significance.

362 New Testament (5)

Background and development of New Testament; philosophical, moral, and religious significance of beliefs of Jesus, Paul, and early Church.

370 History of Religions: India (4)

Vedic religion, Hinduism, Jainism.

371 History of Religions: Southeast Asia, China and Japan (4)

Buddhism, Taoism, Confucianism, Shinto.

372 History of Religions: Near East (4)

Zoroastrianism, Mesopotamian, and Greek religions, and Islam.

373 History of Religions: United States (4)

Christianity, Judaism, and other religions and developments in U.S.

397T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial College students only. (fall) 2nd yr tutorial studies in philosophy.

398T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial College students only. (winter) 2nd yr tutorial studies in philosophy.

399T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial College students only. (spring) 2nd yr tutorial studies in philosophy.

414 Analytic Philosophy (5)

Prereq: 4 philosophy courses and perm prior to registration. Selected topics in contemporary Anglo-American philosophy from Moore to Wisdom.

415 Contemporary Philosophical Problems (5)

Prereq: 2 courses above 400. Issues from current journal literature.

416 Philosophy of Science (5)

Selected problems in logic and methodology of sciences.

418 Plato (5)

Prereq: 4 philosophy courses, including 310. (alternate yrs).

419 Aristotle (5)

Prereq: 4 philosophy courses, including 310. (alternate yrs).

420 Symbolic Logic II (5)

Prereq: 320. Informal and formal deductive systems, logic of relations, class logic.

421 Proof Theory (5)

Prereq: 320 or equiv. (offered on demand) Syntax and semantics of formal theories.

422 Computability (5)

(offered on demand) Algorithms, recursive functions, Turing machines, decidability.

423 Modal and Many-Valued Logics (5)

Prereq: 320. (offered on demand) N-valued logics, modal logic.

424 Foundation Theory (5)

Prereq: 320 or equiv. (offered on demand) Alternative bases for developing formal theories.

428 Continental Rationalism (5)

Prereq: 4 philosophy courses, including 312. (alternate yrs) Descartes, Spinoza, Leibniz.

429 British Empiricism (5)

Prereq: 4 philosophy courses, including 312. (alternate yrs) Locke, Berkeley, Hume.

430 Contemporary Ethical Theory (5)

Prereq: 4 philosophy courses, including 130 or 330. Significant current literature in selected topics of moral philosophy.

431 History of Esthetic Theory (5)

Prereq: 4 philosophy courses. Readings from Plato to Dewey and relation of these theories to selected arts and recent criticism.

432 Problems in Esthetics (5)

Prereq: 9 hrs philosophy, literature, or art. For students interested in arts but not necessarily in issues primarily of interest to philosophers. Writings drawn from modern sources on theory of art, esthetic criticism, creativity, truth in art, esthetic value.

438 Kant (5)

Prereq: 4 philosophy courses, including 312. (alternate yrs) Kant's *Critique of Pure Reason* with attention given to Kant's ethical theory.

440 Contemporary Social Philosophy (5)

Prereq: 330 or 240 or 442 and three other philosophy courses. Consideration of any of a number of various issues in contemporary social, political and legal philosophy. Possible topics are: theories of distributive justice, culpability, causality and responsibility, legal and moral rights, etc.

442 Philosophy of Law (5)

Prereq: 1 philosophy course or perm. Consideration of nature and justification of law and examination of some specialized topics in philosophy of law including ascription of responsibility, civil disobedience, theories of punishment, liberty, etc.

444 Philosophy of Marxism (5)

Prereq: 4 philosophy courses. Philosophical inquiry into classical and contemporary Marxist thought stressing Marx, Engels, Lenin, Stalin, Mao, and

several contemporary Marxists such as Praxis group of Yugoslavia.

448 Pragmatism (5)

Prereq: 4 philosophy courses. (alternate yrs) Peirce, James, Dewey.

450 Theory of Knowledge (5)

Prereq: 4 philosophy courses, including 312. Critical examination of various views of what knowledge is and how it is attained.

451 Metaphysics (5)

Prereq: 4 philosophy courses, including 310 or 312. Basic alternative conceptions of world, and such topics as nature of substance, causality, self, freedom, space, and time.

452 Myth and Symbolism (5)

Prereq: 4 philosophy courses. Characteristic expressions of thought in primitive societies and theories concerning primitive mentality.

458 Contemporary German Philosophy (5)

Prereq: 4 philosophy courses, including 358 and 468. (alternate yrs) Analysis of themes in Husserl, Heidegger, Scheler, Hartman, Dilthey, Cassirer, Gebser, and Ingarden, stressing phenomenological roots as well as new philosophic directions.

459 Contemporary French Philosophy (5)

Prereq: 4 philosophy courses, including 358 and 468. (alternate yrs) Trends in contemporary French philosophy, stressing Sartre, Camus, Marcel, Merleau-Ponty, and Ricoeur, emphasizing existential backgrounds of French thought and its adaptation of existential themes.

460 Contemporary Religious Thought (5)

Prereq: 4 philosophy courses. Representative thinkers such as Tillich, Buber, and others.

468 Phenomenology (5)

Prereq: 4 philosophy courses, including 312. Method and philosophy of phenomenological movement from Husserl to Merleau-Ponty.

470 Indian Philosophy (3)

Prereq: 12 hrs including 370. Classical Hinduism.

471 Buddhist Philosophy (3)

Prereq: 12 hrs including 371. Abhidharmika, Madhyamika, Yogacara, Zen, and other philosophical doctrines of Buddhism.

479 Religion Studies in Public Education (3)

Examination of differences between practice and study of religion, with special reference to Supreme Court decisions and place of religion courses in secondary school curricula.

491 Seminar in Philosophy (1-15, max 15)

Prereq: 5 philosophy courses. Selected problems.

497 Independent Reading (1-9, max 12)

Prereq: perm of chairman.

497T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial College students only. (fall) 3rd yr tutorial studies in philosophy.

498T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial College students only. (winter) 3rd yr tutorial studies in philosophy.

499T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial College students only. (spring) 3rd yr tutorial studies in philosophy.

PHOTOGRAPHY

See Art.

PHYSICS

PHYSICAL SCIENCE

PHYSICS

The minimum requirement for the A.B. degree with a major in physics is 36 quarter hours, including a sequence of beginning courses, either 251, 252, 253, and 316 or 201, 202, 203 and 315, 316 (credit is not granted for both sequences.) This degree is recommended for students who (1) want a general education with emphasis on physics; (2) have plans for further education or employment in an interdisciplinary area or desire a dual major in physics and chemistry, zoology, geology, etc.; (3) want to teach physics in high school. The requirements for option (3), for example, may be met by completing the 31 hours in the physics module under the physics major program listed under the *College of Education*.

The minimum requirement for the B.S. degree with a major in physics is 56 quarter hours. This must include a sequence of beginning courses, either 251, 252, 253, and 316 or 201, 202, 203 and 315, 316 (credit is not granted for both sequences.) In addition, the following advanced courses are specifically required: 272, 273, 311, 312, 371, 372, 373, 411, 427, 428, 451, 452. The requirements in mathematics are 263A, 263B, 263C, 340, 440, 441. The Physics Department also requires 12 quarter hours of a natural science other than physics and mathematics for the B.S. degree.

Students who plan to enter graduate study will find a recommended curriculum listed under "Preparation for Advanced Training in Physics" in the *College of Arts and Sciences* Special Curricula Section. An applied physics program and programs for students interested in astronomy or meteorology are also listed under this section. Students planning to enter graduate study are urged to complete the foreign language requirement in German, French, or Russian. For English composition requirements, see the *College of Arts and Sciences* Section.

Selected students may enroll in the physics tutorial program through the Honors Tutorial College. Students in this program have the option of taking engineering physics for which a curriculum is listed under the *Honors Tutorial College* Section.

Completion of the requirements for either the A.B. or B.S. degree program above completes the Arts and Sciences College requirement of at least nine hours in the major at the junior-senior level.

All students interested in pursuing any of the physics programs described above should contact the chairman of the Physics Department.

PHYSICAL SCIENCE

100 Survey of Astronomy (3)

(on demand) Nontechnical course requiring no physics or mathematics background. Topics covered: risings and settings of sun, moon, and stars for various latitudes; causes of seasons; learning to know constellations; physical properties of planets; life on

other planets; comets, meteors, and meteorites; physical properties of sun and stars; origin and evolution of stars; structure of our galaxy; pulsars; quasars; other galaxies; expanding universe; theories of cosmology. Also listed as Astr 100.

100A Science and Society (2)

Investigations of nature of science and its methods in obtaining knowledge and laws of our total environment. Seeks understanding of basic nature of science and builds comprehension of how science is relevant to man and society. 3 lec, 1 disc.

100B The Universe (3)

Prereq: designed for nonscience major with minimal mathematical background. Descriptive study of astrophysical universe. Fundamental concepts and physical principles; life cycle of stars; explanation of recent findings including pulsars, quasars and black holes, theories of cosmology describing beginning and end of our universe. Other possible topics include UFOs, space exploration and possibility of extraterrestrial life. Also listed as Astr 100B.

100C The Atom and Its Nucleus (3)

Nonmathematical description of basic structure of atoms and nuclei with special emphasis on impact of nuclear physics on 20th-century man. Applications of modern physics in art, archaeology, medicine, and social problems.

100D Moons and Planets: The Solar System (3)

Look at solar system, sun, moons, and planets, through eyes of modern science. Space program, Apollo to Viking, and what we have learned from it. Selected readings and NASA films. 3 lec. Also listed as Astr 100D.

101 Physical World (3)

Designed for nonscience majors. Fundamental ideas of measurement, motion, energy, sound, light, electricity and magnetism, and astronomy. Topics in astronomy include solar system, time, moon phases, tides, eclipses, sun, and galaxies. 3 lec.

101L Physical World (4)

Designed for nonscience majors. Fundamental ideas of measurement, motion, energy, sound, light, electricity and magnetism, and astronomy. Topics in astronomy include solar system, time, moon phases, tides, eclipses, sun, and galaxies. 3 lec, 2 lab.

102 Physical World (3)

Prereq: 101 or equiv. Designed for nonscience majors. Fundamental ideas of heat, nuclear physics, atomic physics, and chemistry. Topics in chemistry include classification of elements, molecules, chemical reactions, solutions, and large molecules, including plastics and DNA. 3 lec.

102L Physical World (4)

Prereq: 101 or equiv. Designed for nonscience majors. Fundamental ideas of heat, nuclear physics, atomic physics, and chemistry. Topics in chemistry include classification of elements, molecules, chemical reactions, solutions, and large molecules, including plastics and DNA. 3 lec, 2 lab.

103 Physical World (3)

Prereq: 101 or equiv. Designed for nonscience majors. Fundamental ideas of meteorology and geology. Topics in meteorology include atmosphere, winds, clouds, storms, and weather. Topics in geology include rocks and minerals, gradation, earthquakes, continental drift, and ocean. 3 lec.

103L Physical World (4)

Prereq: 101 or equiv. Designed for nonscience majors. Fundamental ideas of meteorology and geology. Topics in meteorology include atmosphere, winds, clouds, storms, and weather. Topics in geology include rocks and minerals, gradation, earthquakes, continental drift, and ocean. 3 lec, 2 lab.

111 The Metric System (1)

Introduction to International [Metric] System of Units (SI) through lecture and laboratory experience. Topics include: history of and rationale for SI; SI and its rules for use; metric computation and conversion techniques.

PHYSICS

201 Introduction to Physics (4)

(fall, winter) 1st course in physics; open to students from all areas. Students should have high school level algebra and trigonometry, but no calculus required. Recommended for students in liberal arts, architecture, industrial technology, botany, geology, and premedicine. Lec with demonstrations and lab. Mechanics of solids and liquids, waves and sound. 3 lec, 2 lab.

202 Introduction to Physics (4)

Prereq: 201. (winter, spring) Continuation of 201. Open to students from all areas. Students should have high school level algebra and trigonometry, but no calculus required. Recommended for students in liberal arts, architecture, industrial technology, botany, geology, and premedicine. Lec with demonstrations and lab. Includes electricity, magnetism, heat, thermodynamics, and light. 3 lec, 2 lab.

203 Introduction to Physics (4)

Prereq: 202. (spring, fall) Continuation of 202. Open to students from all areas. Students should have high school level algebra and trigonometry but no calculus required. Recommended for students in liberal arts, architecture, industrial technology, botany, geology, and premedicine. Lec with demonstrations and lab. Includes relativity, quantum, atomic, and nuclear physics. 3 lec, 2 lab. Note: Students who complete 201-202-203 sequence and wish to take higher-level physics courses should take 315 in preparation for other 300-level and above courses. Credit is not given for both the 201-202-203 and 251-252-253 sequences together.

211 The Universe (3)

Prereq: 9 hrs of physics or physical science or perm. Descriptive study of astrophysical universe. Fundamental physical principles, evolution of stars, pulsars, quasars and recent theories of cosmology. 3 lec.

251 General Physics (5)

Prereq: Math 263A. Classical physics with calculus and vectors. Newtonian mechanics, rotational dynamics, gravitation. 3 lec, 2 lab, 1 recit.

252 General Physics (5)

Prereq: 251 and Math 263B. Classical physics with calculus and vectors. Wave phenomena, optics, thermal properties of matter, heat, and thermodynamics. 3 lec, 2 lab, 1 recit.

253 General Physics (5)

Prereq: 252. Classical physics with calculus and vectors. Electricity and magnetism. 3 lec, 2 lab, 1 recit.

270 Special Studies (1-4)

Prereq: perm. Special studies in physics under supervision of faculty member.

272 Electronics Laboratory (2)

Prereq: 202, 253, or perm. (winter) Circuit analysis, electronic measurements, semiconducting devices and instrumentation from DC to microwaves. 4 lab.

273 Electronics Laboratory (2)

Prereq: 272 or perm. (spring) Circuit analysis, electronic measurements, semiconducting devices, and instrumentation from DC to microwaves. 4 lab.

297T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (fall) 1st-yr tutorial studies in physics.

298T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (winter) 1st-yr tutorial studies in physics.

299T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (spring) 1st-yr tutorial studies in physics.

303 Digital Computing Methods in Physics (4)

Prereq: physics major or perm. Practical computer programming (FORTRAN, etc.) with special emphasis on problems in physics. 4 lec.

311 Mechanics (4)

Prereq: 253 or 315; Math 340 (may be taken concurrently). (fall) Fundamentals of physical mechanics and wave motion, using vector analysis and differential equations. Newton's laws, equilibrium, harmonic, and central force motion of particles. 3 lec.

312 Mechanics (4)

Prereq: 311. (winter) Continuation of 311. Accelerated reference frames, motion relative to the earth, Lagrange's equations, rigid body motion, vibrations and wave motion. 3 lec.

315 Intermediate Physics for Scientists and Engineers (4)

Prereq: 201, 202, 203 or equiv and calculus. (winter) Review of mechanics and general physics with emphasis on application of calculus and vector analysis. Intended for students who have had a thorough noncalculus physics course and approximately 1 yr of calculus. Phys 201, 202, 203 followed by 315 accepted as equiv to calculus-level physics; Phys 251, 252, 253. 4 lec.

316 Contemporary Physics for Scientists and Engineers (3)

Prereq: 252 or 315. Introduction to quantum theory and relativity; selected topics in atomic, nuclear and solid state physics. 3 lec. Intended to follow classical physics with calculus; either 253 (252 for electrical engineering majors) or 315.

371 Intermediate Laboratory (Electrons) (2)

Prereq: 316 (or with 316) or perm. Fundamental experiments on electrons. 4 lab.

372 Intermediate Laboratory (Photons) (2)

Prereq: 316. (winter) Speed of light, optics, lasers, x-rays, and spectroscopy. 4 lab.

373 Intermediate Laboratory (Nucleons) (2)

Prereq: 316. (spring) Basic phenomena in atomic and nuclear physics studied with charged particle ac-

celerator. Proton and neutron induced reactions and scattering. Principles and operation of radiation detectors. Interaction of radiation with matter. Neutron activation analysis. 4 lab.

397T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (fall) 2nd-yr tutorial studies in physics.

398T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (winter) 2nd-yr tutorial studies in physics.

399T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (spring) 2nd-yr tutorial studies in physics.

411 Thermodynamics (4)

Prereq: 253 or 315, Math 340. (fall) First and second laws of thermodynamics, phase changes, and entropy. Temperature, thermodynamic variables, equations of state, heat engine. 3 lec.

412 Kinetic Theory and Statistical Mechanics (4)

Prereq: 411. (winter) Kinetic theory, transport phenomena, and introduction to classical and quantum statistics. 3 lec.

420 Acoustics (3)

Prereq: 312 or perm, Math 340. (spring) Vibration, sound radiation, sound propagation, and practical aspects of sound. 3 lec. Offered odd years.

423 Geometrical and Physical Optics (4)

Prereq: 253, Math 340, or perm. Reflection, refraction, lenses, polarization, birefringence, interference, diffraction, coherence, and selected introductory topics in modern optics. 3 lec, 2 lab.

427 Electricity and Magnetism (4)

Prereq: 253 or 315; Math 340 and 440. (fall) Circuits and electric and magnetic fields. Topics on field sources, potentials, Gauss' law, polarization and dielectrics, magnetic induction. 3 lec.

428 Electricity and Magnetism (4)

Prereq: 427. (winter) Electric and magnetic fields. Topics on magnetic potentials, magnetic forces, Faraday law, magnetic materials, capacitance and inductance, energy of charge and current distributions, time-varying current. 3 lec.

429 Electromagnetism and Relativity (4)

Prereq: 428. (spring) Advanced topics in electromagnetism; Maxwell's equations and electromagnetic waves; special relativity and Lorentz transformation. 3 lec.

451 Quantum Physics (4)

Prereq: 316 or perm. (fall) Quantum effects in atomic and molecular physics; basic ideas of quantum mechanics; solutions to Schroedinger equation for simple systems. 3 lec.

452 Quantum Physics (4)

Prereq: 451; Math 441 (may be taken concurrently). (winter) Quantum effects in atomic physics; identical particles and Pauli Principle; application of quantum mechanics to interpretation of atomic spectra and structure. 3 lec.

453 Nuclear and Particle Physics (4)

Prereq: 452. (spring) Descriptive treatment of nuclear phenomena. Elementary theory of nucleon-nucleon interaction. Systematics of nuclear structure (shell model and collective model). Properties

and interactions of fundamental particles. Devices and techniques of nuclear and high energy physics. 3 lec.

470 Special Problems (1-4)

Prereq: 22 hrs. Supervised research problems of limited scope in experimental and theoretical physics.

471 Solid State Physics (4)

Prereq: 452, 412. (spring) Fundamental properties of solid state of matter. 3 lec. Offered yearly on demand.

475 Advanced Laboratory (1 hr per sec, max 3)

Prereq: 373 or perm. Wide selection of experiments from many areas of physics. Limit of 2 students per section. Student may select up to 3 different sections each qtr.

493 Undergraduate Seminar (1)

Prereq: jr rank. Important areas of current interest in field of physics, the history of physics, development of ideas in physics, and other aspects of physics.

497T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (fall) 3rd-yr tutorial studies in physics.

498T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (winter) 3rd-yr tutorial studies in physics.

499T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (spring) 3rd-yr tutorial studies in physics.

POLITICAL SCIENCE

The major requirement for the AB degree is a minimum of 45 hours including PolS 101 and either 102 or 103. Majors must also take at least 1 course at the 200 level or above in 4 of the following 5 areas: American politics; comparative politics; international relations; political theory; public administration. Fulfillment of this distribution requirement also guarantees completion of the requirement of the College of Arts and Sciences of 9 hours at the junior-senior level. The distribution requirement for a minor in political science is the same as for the major but the total number of hours required is 24.

American politics includes: 304, 306, 320, 323, 374, 390, 401, 402, 403, 404, 405, 406, 409, 415, 417, 418, 419, 420, 471, 476A, 476B; comparative politics: 230, 331, 333, 335, 431, 432, 433, 434, 435, 436, 437, 438, 439, 441, 445, 446, 447A, 447B, 448, 479; international relations: 250, 351, 354, 427, 433, 452, 455, 456, 459, 461; political theory: 270, 371, 372, 373, 374, 416, 471, 474, 475, 476A, 476B, 478, 479, 481, 482, 485; public administration: 311, 408, 409, 410, 411, 412, 413, 414, 416, 424, 425, 426, 427, 495.

101 American National Government (4)

Constitutional basis and development, political processes, and organization of American national government.

102 Issues in American Politics (4)

Prereq: 101. Continuation of 101. Concerned with administration and policy making processes of national government in selected areas *i.e.*, welfare, civil rights, defense, etc.

103 The United States in World Affairs (4)

Designed to introduce students to some major problems confronting United States in world arena and to ways in which these problems have been and are being dealt with. Will include examination of context in which American foreign policy is formulated and carried out as well as of some political, economic, military, and technological issues involved in working within an increasingly interdependent world.

230 Comparative Politics (4)

E. Baum. Introduction to dynamics, structures, and comparison of contemporary political systems and processes.

250 International Relations (5)

R. Bald, S. Kim, H. Molineu, P. van der Veur. Contemporary international system and major forces and conditions which affect current international politics. Special emphasis on role of conflict and need for peaceful conflict resolution.

270 Political Theory (4)

Introduction to study of political theory: examination of selected political issues from philosophical perspective.

304 Politics in the American States (5)

Prereq: 101-102. *J. Tucker.* Comparative analysis of state political systems. Emphasis on structure and process of policy-making of states within a federal context.

306 Politics of Appalachia (4)

Prereq: 101 or perm. Introduction to broad range of Appalachian political problems, such as politics of poverty. Includes examination of responses to these problems by various levels of government.

311 Public Administration (4)

Prereq: 101 or perm. *E. Collins, J. Tucker, M. Weinberg.* Development of administrative organizations, current ideas in organizational theory, nature of federal bureaucracy, fiscal management, and control of administrative action.

320 Urban Politics (5)

Prereq: 101-102 or perm. Examination of role of values in urban politics focusing on their relationship to urban problems, structure and functions of municipalities, urban professionalism, and alternative urban arrangements.

323 Black Politics in the United States (4)

Prereq: 101 or perm. Appraisal of economic and institutional structure of American society through social doctrines enunciated by black political theorists, which serve as inspiration and ideology for black political movements. Examines socio-political societies in various parts of Africa and interprets black political movements in cultural, philosophical, ideological, and technological terms.

331 Politics in Western Europe (4)

W. Elsbree, T. Walker, R. Bald. Government and politics in several West European nations.

333 Politics in the Soviet Union (4)

D. Williams. Introduction to political development, ideology, institutions, and contemporary politics of the U.S.S.R.

335 The Politics of Developing Areas (4)

F. Gagliano. Major theories and problems of political, socio-cultural, and economic development in new nations of Asia, Africa, and Latin America, with special emphasis on heritage of colonialism,

struggle for independence, and political adjustments to rapid social and technological change.

351 Current International Problems (4)

R. Bald, S. Kim, H. Molineu, P. van der Veur. Selected case studies, crises, and issues illustrating major problems of contemporary international politics.

354 American Foreign Policy (5)

Prereq: 103 or 250 or perm. *H. Molineu.* Consideration of problems involved in formulation and execution of foreign policy. Particular emphasis on contemporary problems of American policymakers.

371 Ancient and Medieval Political Thought (5)

Prereq: 11 hrs. *F. Henderson, R. Hunt.* Major figures and basic concepts characteristic of political thought in ancient and medieval periods. Emphasis on original works of Plato, Aristotle, St. Augustine, Dante.

372 Modern Political Thought (5)

F. Henderson, R. Hunt. Basic philosophic conceptions of modern nation state. Utilizing original works, evolution of nation state traced through philosophical literature from its Renaissance origins. Attention focused on both formative and critical perspectives, such as those of Machiavelli, Rousseau, and Emma Goldman with emphasis upon evaluation of norms associated with modern state.

373 Contemporary Political Thought (5)

F. Henderson, R. Hunt. 19th and 20th century political theory. Focus on such contemporary philosophical and political issues as emergence of European socialist tradition, origins of human aggression, and human alienation. Attention given to selected theorists such as Marx, Freud, Gandhi, and Sartre.

374 Great Jurists (4)

F. Henderson. Analysis of life, legal writings, and thought of prominent jurists such as Taney, Frankfurter, Harlan, Marshall, Douglas, and Learned Hand.

390 Political Workshop (10-15)

Prereq: 101-102 and 1 other course in political science. (offered fall qtr of even-numbered years) Intensive analysis of political organizations and campaigning combined with field experience in campaigning.

401 American Constitutional Law (4)

Prereq: 14 hrs political science or history. *R. Gusteson.* Principles underlying American constitutional government. Consideration of leading cases with reference to interpretation of the Constitution of the United States.

402 American Constitutional Law (4)

Prereq: 14 hrs political science or history. Continuation of 401. See 401 for description.

403 Judicial Process (4)

F. Henderson. Inquiry into formal and informal functions of prosecuting attorneys, defense attorneys, juries, judges, and quasi-judicial bodies; analysis and evaluation of major problems confronting each. Ohio judicial system given special emphasis.

404 Civil Liberties (4)

F. Henderson. Examination of selected civil liberties issues such as freedom of expression, human and political equality, rights of criminally accused, and rights of indigent.

405 American Political Parties (4)

Prereq: 11 hrs. *R. Gusteson.* Origin, growth, organization, and methods of parties; suffrage, nominations, and elections; role of parties in a democracy.

406 Elections and Campaigns (4)

Prereq: 11 hrs. *P. Richard.* Examines nature of voter and rationality of voter decisions; impact of campaigns and their influence on election outcomes; techniques used in political campaigns; and role of elections in American society.

408 Urban Public Administration (4)

M. Weinberg. Examines administration of urban programs and encounters between urban administration and program clientele. Focuses on literature of agency-client relationships, professionalism, public personnel administration, and public administration.

409 Law Enforcement (5)

Prereq: 11 hrs or perm. Role, function, and problems of American judicial, prosecutory, policing, and correctional systems in political process. Crime and law as functions of social and political systems. Examination of relationship of law and social change in industrialized, urbanized, and technical society.

410 Public Policy Analysis (5)

Prereq: 101-102. Analysis of major forces determining public policy. Policy areas such as education, health, and social welfare examined. Approaches to analysis of public policy and policy impact analysis explored.

412 Public Personnel Administration (4)

Prereq: 11 hrs. *E. Collins.* Philosophy, problems, and procedures of public personnel management: recruitment, training, promotion policies, position classification, and employer-employee relations.

413 Administrative Law (5)

Prereq: 11 hrs. *E. Collins.* Organization, functions, and procedures of selected national regulatory agencies; principles affecting administrative discretion, administrative power over private rights, enforcement, and judicial control of administrative decisions.

414 Organizational Theory and Behavior (5)

Prereq: 11 hrs. *M. Weinberg.* Examination of central role of organizations in public life, presenting major theories of organizations, organizational behavior, and individual's role in organization. Explanatory theories drawn from political philosophy, political psychology, and sociology, as well as from public administration.

415 The American Presidency (4)

Prereq: 11 hrs. *R. Gusteson.* Analysis of office of national chief executive and its place in American political system. Attention given to constitutional status and powers, functional development, and interrelationship of man and office.

416 Political Leadership (5)

Prereq: 11 hrs. *F. Gagliano.* Examination of central role of leadership in political life, presenting major theories of leadership. Explanatory models drawn from perspectives of political psychology and political sociology, as well as from statecraft and political science.

417 Legislative Politics (5)

Prereq: 11 hrs. Examination of legislative behavior, especially at national level.

418 Interest Groups in American Politics (5)

Prereq: 11 hrs. Organization and tactics of pressure groups and their impact on policy-making process.

419 Public Opinion in American Politics (4)

P. Richard. Explores questions of how political attitudes are formed, maintained, and changed; how political attitudes and public opinion are distributed and their role in formation of public policy; and how public opinion is measured.

420 Women and Politics (4)

P. Richard. Examines arguments used to support and maintain discrimination on basis of sex, identifies present position of women, and analyzes kinds of changes (demographic, legal, political, economic, educational) presently underway. Explores parallels between racism and sexism, development of feminist movement, current issues affecting women's position, and alternatives for future.

424 Intergovernmental Relations (4)

Prereq: 411 or perm. *M. Weinberg.* Examines intergovernmental fiscal patterns between federal-state-local governments and impact of fiscal transfers on local budgeting and finance administration. Includes analysis of nonfiscal patterns such as federal program requirements, their impact on local administrative processes, and other pressures on local budgeting and finance.

426 The Politics of Higher Education (4)

Prereq: jr or sr rank. *J. Tucker.* Relationships between institutions of higher education and political system. Attention given to roles of federal and state governments in governing, coordinating, and funding higher education.

427 Formulation of American Foreign Policy (5)

H. Molineu. Covers institutional and administrative as well as political and more informal processes whereby foreign policy decisions are formulated and implemented in United States.

431 Communist Political Systems (4)

Prereq: jr or sr rank or perm. Combines examination of approaches to study of Communist political systems in general with analysis of similarities and differences in development, organization, and functioning of various Communist Party states, primarily those of Eastern Europe.

432 Power and Policy in the U.S.S.R. (5)

Prereq: 333 or course in Soviet history or perm. *D. Williams.* Examination of how Soviet leadership deals with number of major domestic problems.

433 Soviet Foreign Policy (5)

D. Williams. Analysis of foreign policies of U.S.S.R. Historical, ideological, strategic, and other influences covered. Relations with bloc countries included.

434 Government and Politics of Latin America (4)

Prereq: jr or sr rank. *T. Walker.* Political systems of Latin America. Emphasis on power relationships and political obstacles to change in contemporary Latin America.

435 Revolution in Latin America (4)

Prereq: jr or sr rank. *T. Walker.* Revolution as a theoretical concept and as a practical reality in several Latin American countries. Special emphasis on Cuban and Mexican revolutions.

436 The Politics of Brazil (4)

Prereq: jr or sr rank or perm. *T. Walker.* Emphasis on 20th century politics, particularly relationship between patrimonial society and political institutions. Important power contenders such as military, church, landed aristocracy, industrial elite, bureaucracy, labor, and peasantry examined.

437 British Parliamentary Pattern (4)

Prereq: 11 hrs or perm. *W. Elsbree, D. Williams.* Political institutions and processes in Britain and impact of British pattern on 1 or more other countries.

438 Government and Politics of Germany (5)

Prereq: 11 hrs or perm. *R. Bald.* Major political processes, personalities, and institutions of contemporary West Germany, including key foreign policy issues.

439 Politics in France (4)

Prereq: 11 hrs or perm. *J. Barnes, D. Williams.* Major political processes, personalities, ideas, and institutions of modern France.

441 Government and Politics of Africa (5)

Prereq: 8 hrs political science or history. *E. Baum.* Development and structure of modern African states with emphasis on political processes in tropical Africa.

445 Government and Politics of Japan (4)

Prereq: 11 hrs of political science or Asian history. *W. Elsbree.* Political institutions and processes of Japan with emphasis on developments since 1945.

446 Government and Politics of China (4)

Prereq: 11 hrs of political science or Asian history. *W. Elsbree.* Political institutions and processes and major political developments in modern China.

447A Government and Politics of Southeast Asia (4)

P. van der Veur. From ancient empires to western colonial rule; rise of nationalism and arrival of independence in post WW II period. Main emphasis on political developments in Indonesia and the Philippines.

447B Government and Politics of Southeast Asia (4)

Continuation of 447A but can be taken independently. Period of independence since WW II with main emphasis on political developments in Indonesia and Malaysia.

448 Politics of Southeast Asia (4)

Prereq: by perm only. *P. van der Veur.* Discusses and analyzes various aspects of major themes such as nationalism, colonialism, political succession, national integration, etc.

450H Honors in Political Science (5, max 20)

Prereq: acceptance in departmental honors program. Seminar on selected aspects of political science and approaches to study of politics to be followed by research for an honors thesis.

452 Studies in International Relations (5)

Prereq: 250 or perm. *H. Molineu, S. Kim, R. Bald, E. Baum.* In-depth analysis of various aspects of international relations including major theoretical approaches to study of international relations.

455 International Law (5)

Prereq: 250 or perm. *S. Kim.* Role of international law in interstate relations and international organization.

456 International Organization (5)

Prereq: 250. *S. Kim*. Analysis of nature, development, structure, and functions of international organizations with particular emphasis on United Nations.

459 Arms Control and Disarmament (4)

Prereq: 11 hrs. *R. Bald*. Examines military force in nuclear age with special emphasis on strategy of nuclear deterrence; history of disarmament negotiations since WW II; arms control agreements; and case studies in current US-Soviet arms control negotiations.

461 Weak States in World Politics (4)

Prereq: 250. *E. Baum*. Detailed examination of impact of new states on international relations. Particular attention given to problems and foreign policies of new states.

463 The United States and Africa (5)

Prereq: 103 or 250 or 354. Origins and nature of American relations with African states, with emphasis on current American interests and policy.

471 Legal Theory and Social Problems (4)

F. Henderson. Examination of legal reasoning and normative values of judges, lawyers, legal theorists, and quasi-judicial bodies in shaping legal solutions to contemporary social problems.

474 19th Century Political Thought (4)

Prereq: 15 hrs political science or European history. *W. Elsbree*. Movements in 19th century political thought in Europe; liberalism, socialism, irrationalism among subjects covered.

475 Studies in Political Thought (5)

F. Henderson, R. Hunt. Selected topics in political theory; e.g., anarchism, socialism, democratic theory, technology and politics, etc. Consult department for information pertaining to current course description and schedule.

476A American Political Thought (4)

Prereq: 11 hrs of political science or history. *A. Pringle*. Origin and development of political ideas from colonial period through slave controversy.

476B American Political Thought (4)

Prereq: 11 hrs of political science or history. Continuation of 476A but can be taken independently. Begins with Social Darwinism and concludes with contemporary political ideas in America.

478 Feminist Political Thought (4)

Prereq: jr or sr rank. *J. Huntley*. Examines relationship between feminist thought and women's movement. Deals with topics such as emergence of feminist political thought, its antecedents, and current writings.

479 Latin American Political Thought (4)

Prereq: jr or sr rank or perm. *T. Walker*. Evolution of Latin American political thought from conquest to present. Major emphasis on 20th century movements such as the Democratic Left, the progressive Catholic Left, and the Marxist Revolutionary Left.

481 Modern Political Analysis (5)

Prereq: 20 hrs, perm. *D. Dabelko*. Examination of problems of knowledge in social sciences with particular emphasis on political science. Analysis of major theories or approaches developed in political science recently.

482 Quantitative Political Analysis (5)

D. Dabelko. Designed to show relevance of scientific research techniques to study of politics.

485 Personality and the Political Process (5)

Prereq: 15 hrs or perm. *D. Dabelko*. Relevance of personality characteristics, psychological mechanisms, and life history factors in explaining political behavior. Topics are behaviorism, psychoanalytic theory, authoritarianism, dogmatism, and other personality traits as related to political beliefs and behavior.

490 Studies in Political Science (3-5)

Prereq: 11 hrs, perm. Intensive study of special topics in field of political science, including American government and politics, comparative government, international relations, political theory, and public administration.

491 Research in Political Science (1-5, max 10)

Prereq: 18 hrs and advance perm of instructor. Research in selected fields of political science.

495 Public Affairs Internship (1-15)

Prereq: perm only. *M. Weinberg*. Provides qualified students with opportunity to learn through working in selected public and private agencies.

498 Problems in Political Science (1-5, max 10)

Prereq: 18 hrs and advance perm of instructor. Research or directed reading based on student's special interest.

PORTUGUESE

See Foreign Languages and Literatures.

PSYCHOLOGY

The major in psychology consists of a minimum of eight psychology courses and a total of 45 quarter hours. Psy 101 and 121 are required. In addition, a minimum of two courses from each of the following three areas is required: (a) 173, 241, 261, 275, 304, 376, 448; (b) 226, 301, 303, 307, 311, 312, 314, 315, 327, 390; (c) 131, 310, 332, 333, 335, 336, 337, 351. A minimum of nine hours must be completed at the 300 level or above. Five credits for appropriate on-the-job training related to psychology may be obtained by registering for Psy 489 with the permission of a psychology faculty member; forms supplied by the department must be submitted by the student's employer, and the credit for 489 must be approved by the student's advisor.

Students who are considering graduate work in psychology are encouraged to give special consideration to the following courses: 226, 241, 301, 303 or 304, 307, 310, 311, 312, 314, 315, 327, 332, 333, 336, 376, and 390.

No courses taken on a pass/fail basis may apply toward fulfilling requirements for the psychology major or for professional certification in any field. This includes the five hours of freshman English plus Eng 305 or 308 as indicated in the *College of Arts and Sciences* section of this catalog.

The Department of Psychology offers a master's degree in school psychology which is approved by the Ohio State Department of Education and prepares a student for certification as a school psychol-

ogist. Recent changes in the laws governing teacher education and certification provide an alternative program of undergraduate preparation to qualify the student for admission to the graduate program in school psychology. Coursework in six education areas (including educational psychology) may be substituted for the teacher's certificate requirement. For further information contact the Coordinator for School Psychology, Department of Psychology, Porter Hall.

Total hours for a major in psychology may not exceed 60 quarter hours. Preparation in a diversity of fields is recommended: modern languages, biological sciences, mathematics, computer science, and the social sciences.

Students may receive minor certification to teach social psychology at the secondary school level by meeting the following requirements: (1) completing certification requirements in a major teaching field (for complete specification of these fields contact the College of Education) and (2) completing the following courses in psychology: 121, 226, 304, 333, 336, and five hours from among 241, 311, 315, 376, or any 490 seminars in developmental or social psychology.

A limited number of students may receive major certification to teach social psychology at the secondary level by the following process: (1) completing the following courses in psychology: 101, 121, 226, 241, 275, 304, 333, 336; five hours from Psy 307, 311, 312, and ten hours from Psy 173, 310, 315, 332, 351, 376, or seminars in developmental or social psychology; (2) completing minor certification in some second teaching field. For further information on the program, criteria for acceptance into it, and procedures for application check with the Department of Psychology or the College of Education.

101 General Psychology (5)

Introduction to psychology dealing primarily with learning, sensory processes, social and clinical psychology.

121 Elementary Statistics for the Behavioral Sciences (5)

Prereq: Math 113 or 2 yrs h.s. mathematics. Measures of central tendency, variability, correlation, and simplest tests of hypotheses.

131 Psychology of Adjustment (4)

Prereq: 101. Dynamics, development, and problems of human adjustment.

173 Child and Adolescent Psychology (5)

Prereq: 101. Behavior from infancy through adolescence.

226 Experimental Psychology (5)

Prereq: 121. Training in scientific methods and techniques of modern experimental psychology with individual reports of experiments. 2 lec, 4 lab.

241 Behavioral Measurement (5)

Prereq: 101, 121. Tests, psychophysical methods, scaling techniques, and questionnaires. Basic criteria, including reliability, homogeneity, and validity.

261 Industrial Psychology (5)

Prereq: 101 and 121. Applications of psychology in business and industry.

275 Educational Psychology (5)

Prereq: 101. Psychological foundations of education, with major emphasis upon learning, transfer, motivation, and evaluation.

301 Experimental Sensory Psychology (5)

Prereq: perm. Sensory processes, including vision, audition, gustation, olfaction, and somethesis. 2 lec, 3 lab.

303 Learning (5)

Prereq: 121 and 226. Experimental investigation of classical and instrumental conditioning, discrimination learning, generalization, related phenomena.

304 Human Learning (5)

Prereq: 101, 121, or perm. Theoretical and experimental investigations of learning in human beings; concept learning, problem solving, memory, motor skills, and language.

307 Psycholinguistics (4)

Prereq: 101, perm. How people produce, understand, and acquire language; psychological and linguistic theories. Emphasis on use of language.

310 Motivation (5)

Prereq: 10 hrs of psychology. Survey of theories of motivation, with emphasis on human motivation.

311 Perception (5)

Prereq: 101, perm. Theory and research on perception with emphasis on auditory and visual modalities. Basic process: perception of objects, space, movement, and events; effects of attention, set, and values; perceptual development.

312 Physiological Psychology (5)

Prereq: perm. Relationships between integrated behavior and bodily processes in intact organism.

314 Comparative Psychology (5)

Prereq: 101. Behavior of animals across phylogenetic scale. Interaction of genetics, hormones, learning, etc., in development of behavior. Lecture, lab, field trips, and naturalistic movies.

315 Individual Differences and Behavior Genetics (5)

Prereq: 101. Extensive survey of individual differences and their relationship to genetic factors. Topics include chromosomal abnormalities, inborn errors of metabolism, genetic and prenatal screening, behaviors in infant, genetics and intellectual differences, psychopathology and genetics, racial differences, and continuing evolution of behavior.

327 Human Psychophysiology (5)

Prereq: perm. Relationships between psychological variables and physiological events in humans.

332 Abnormal Psychology (5)

Prereq: 101. Behavior disorders, their cause, and effects on person, family, and society.

333 Psychology of Personality (5)

Prereq: 101. Development and organization of personality, with evaluation of major theoretical viewpoints; research on personality structure, dynamics, and change.

335 Environmental Psychology (4)

Prereq: 101. Study of theory and research relating to impact of physical and social environments on human cognition, behavior, and mental health.

336 Social Psychology (5)

Prereq: 101. Behavior of man as influenced by group membership, with emphasis on individual's interaction as basis of change of motives, attitudes, and personality.

337 Social Psychology of Justice (5)

Prereq: 101 (336 recommended). Social and developmental study of acquisition of justice concepts, cultural norms of justice, personality and social interaction influencing perception of justice in civil and criminal justice systems.

351 Introduction to Clinical and Counseling Psychology (5)

Prereq: 121, 241, 332, or 333. Diagnostic and remedial procedures and resources; professional problems, duties, skills, and interprofessional relationships.

376 Psychological Disorders of Childhood (5)

Prereq: 173 or EdEl 200. Characteristics, etiology, and treatment of abnormal child behavior: developmental problems, neuroses, psychoses, behavior disorders, exceptional intellectual abilities, psychophysiological disorders.

390 Research in Psychology (1-5, max 15)

Prereq: 226, written perm. Supervised independent research on predefined problem.

448 Psychology of Speech (4)

See InCo 452.

489 Fieldwork in Psychology (1-5, max 5)

Prereq: written perm. Independent fieldwork and on-the-job training.

490 Seminars in Psychology (3-5)

Prereq: dependent on seminar; perm required. Several seminars on specific topics in psychology will be offered yearly, carrying predetermined alphabetical designations (*e.g.*, 490A). See specific exceptions under Catalog Numbers at beginning of this section. See Schedule of Classes for description each qtr.

491 Special Problems in Psychology (1-15)

Prereq: written perm. Independent work on special problem with any psychology professor.

492 Special Problems — Psychology (1-15)

Prereq: Study Abroad Program; perm.

H496 Psychology Honors Seminar (3-5)

Prereq: perm, admission to Honors Tutorial College. Seminar on specific topics. See Schedule of Classes each qtr.

H497 Readings in Honors Work (1-4, max 10)

Prereq: perm.

H498 Honors Work in Psychology (1-4, max 10)

Prereq: perm. Preparation for H499.

H499 Honors Work in Psychology (Thesis) (3-7, max 15)

Prereq: perm.

QUANTITATIVE METHODS

The quantitative methods major allows for flexibility in designing a program to suit the student's wishes.

In addition to the BBA degree requirements, a student majoring in quantitative methods must complete 24 hours of 400-level quantitative methods courses. At least one four-hour course shall be in each of the following areas: data processing, operations research, and statistics. The other 12 hours,

subject to an advisor's approval, may be elected to gain depth in one of these three areas.

NOTE: Of the courses listed below, only QM 200, 201, 401, 420, 430, 454, 491, and 497 are offered *each* year, and the quarters in which they are offered are indicated in parentheses in the course description. For courses marked with an asterisk (*), students should check with the department to learn when they will be taught.

200 Introduction to Business Data Analysis (4)

Prereq: Math 163 A,B. (fall, winter, spring, summer) Introduction to computer data analysis through use of SPSS package of statistical computer programs. Descriptive statistics. Introductory study of probability, random variables, expectations, and variances. Covers well-known discrete and continuous probability distributions.

201 Introduction to Probabilities and Statistics (4)

Prereq: 200. (fall, winter, spring, summer) Sample designs, sampling distributions of sample statistics, and estimation (point and interval) of parameters. Bayesian and classical (hypothesis testing) decision theory. Contingency table analysis and analysis of variance. Regression and correlation analysis. Use of library computer programs where appropriate.

401 Operations Research (4)

Prereq: 201. (fall, winter, spring) Introductory survey of techniques of operations research, viewed as part of applied decision theory. Applications in fields of accounting, production, finance, and marketing stressed. Such topics as inventory models, linear programming, network analysis, scheduling models, and simulation.

403 Statistical Quality Control (4)*

Prereq: 201. Application of sampling theory to quality control: in process control (*i.e.*, control charts) and sampling inspection (*i.e.*, attribute and variable).

420 FORTRAN Programming (4)

Prereq: 200. (fall) Use of computer in organizations to store, process, and deliver data using FORTRAN language to solve business problems. (Formerly QM 370)

425 Advanced FORTRAN (4)*

Prereq: 420 or equiv. Deals with application of FORTRAN programming language to problems in marketing, finance, management, accounting, and economics.

430 COBOL Programming (4)

Prereq: 200. (winter) Introduction to business-oriented computer language COBOL.

434 Design of Experiments (4)*

Prereq: 456 or perm. Nested, split plot; replicated designs; multi-factor experiments; compounding; fractional factorials; analysis of covariance.

435 Advanced COBOL (4)

Prereq: 430. (spring) Deals with application of COBOL programming language to problems in marketing, finance, management, accounting, and economics.

438 Nonparametric Statistics (4)*

Prereq: perm. Appropriate statistical tests; power; asymptotic efficiency; parametric vs. nonparametric; Fisher's randomization method; run test; multi-sample tests; one-way ANOVA and two-way ANOVA; miscellaneous tests.

445 Forecasting Business Trends (4)*

Prereq: 201 or perm. Forecasting techniques and methodologies considered as tools decisionmakers use to provide basis for determining nature of future environments in which business will have to operate. Forecasting is means for integrating total corporate planning with technical marketing and financial planning.

451 Statistical Survey Techniques (4)*

Prereq: 201 or equiv. Techniques of small sample tests applied in opinion polling, business, economics, and government.

454 Intermediate Probability Theory (4)

Prereq: 201 or equiv. (fall) Random variables — moment generating functions and expected multi-dimensional (continuous and discrete), values, limiting theorems.

455 Sampling Theory (4)

Prereq: 454 or perm. (winter) Estimation, tests of hypotheses, sampling, analysis of variance, design of experiments.

456 Regression Analysis (4)*

Prereq: 455 or perm. Time series analysis, game theory, regression and correlation analysis, and introduction to decision making.

461 Bayesian Statistics (4)*

Prereq: 454. Probability and statistics taught from Bayesian point of view.

485 Simulation (4)*

Prereq: 401 or perm. Development of models of complex management decision environments and their manipulation via computer simulation. GPSS programming language. Interpretation of simulation results. Applications to problems in marketing, finance, and production.

490 Systems and Procedures (4)*

Prereq: 420, 430, or perm. Study of detailed methods for collecting, organizing, and evaluating information to improve operations of an organization.

491 Seminar (3, 4 or 5)

Prereq: perm. Selected topics of current interest in quantitative methods area.

497 Independent Research (1-15)

Prereq: perm. Research in selected fields of quantitative methods under direction of faculty member.

RADIO-TELEVISION

105 Introduction to Mass Communication (4)

Development, structure, functions, processes, control, and effects of mass media. 4 lec. Identical to Jour 105 and InCo 105.

106 Introduction to Radio-Television (4)

History, organization, structure, and function of electronic communication media. 4 lec.

121 Radio Performance (2)

Responsibilities and skills required of radio performer; practice in performance techniques for radio. 4 lab.

170 Media Perspectives (4)

Studies impact of electronic mass media through examination of uses, forms, themes, and implicit

values. Combines lecture, discussion, and analysis of personal media uses.

200A Broadcast Writing and Production Planning (4)

Prereq: soph rank. Introduction to nondramatic script writing in radio and television. Examination of elements of preproduction preparation for broadcast programs. 4 lec.

200B Introduction to Radio Production (2)

Prereq: 200A. Basic elements of radio program production and direction. Introduction to basic radio production skills. 2 lec, 2 lab.

200C Introduction to Television Production (2)

Prereq: 200A. Basic elements of television program production and direction. Introduction to basic television production skills. 2 lec, 2 lab.

208 Technical Bases of Radio-Television (4)

Principles of electronic reproduction and transmission of aural and visual signals; functions of broadcast equipment.

270 Broadcasting and the Public (4)

Prereq: soph rank. Interrelationships among broadcaster, government, and public; bases for evaluation of broadcasting's influence on society and impact of public pressure on broadcasting. 4 lec.

322 Television Performance (4)

Prereq: 200C and audition. Advanced exercises in television performance stressing special problems of video performer. 2 lec, 4 lab.

355 Broadcast Programming (4)

Prereq: jr rank. Radio and television programming principles and practices; analysis and evaluation of programs and program formats.

405 Research Internship (1-9)

Prereq: acceptance by competition only. Opportunity for students to implement and complete major research study under supervision.

413 Advanced Radio Production-Direction (4)

Prereq: 200B. Advanced techniques for production of audio materials. Investigation of special problems in radio program development. 2 lec, 4 lab.

417 Television Production-Direction (4)

Prereq: 200C. Basic video esthetics. Laboratory experience in production and direction of television studio projects. 3 lec, 3 lab.

418 Advanced Television Production-Direction (4)

Prereq: perm. Development and production of projects as requested by Telecommunication Center for use by WOUB-TV.

419 Advanced Television Production-Direction (2)

Special projects in television production.

431 Dramatic and Documentary Writing (4)

Prereq: jr rank. Writing and critique of form, structure, and presentation of both dramatic and non-dramatic programs and series. 4 lec.

432 Advanced Dramatic and Documentary Writing (4)

Prereq: perm. Advanced writing course in which experienced student creates substantive scripts in documentary and dramatic areas.

440 Radio and Television in Education (4)

Prereq: sr rank. Summary, analysis, application, and evaluation of public and instructional broadcasting. 4 lec.

441 Instructional Methods in Educational Radio-Television (4)

Prereq: jr rank. Utilization of television as adjunct to instruction. 4 lec.

452 TV Newsfilm Production and Editing (3)

Prereq: jr rank and perm. Principles and practices of video production and editing for television views. Identical to Jour 452.

453 Broadcasting Law and Regulations (4)

Prereq: jr rank. Socio-political control of broadcasting; effects of laws and regulations upon broadcast station policies. 4 lec.

459 Audience Research (4)

Various methods, techniques, and applications of audience study in broadcasting; includes a study of current rating services. 4 lec.

460 Broadcast Management (4)

Prereq: 355 or perm. Intensive overview of bases of broadcast management; includes concepts relating to management theory, personnel motivation, organizational communication, and management's relationship to various aspects of station operation. 4 lec.

461 Electronic Media Management I (4)

Prereq: 460. Consideration of fiscal problems in operation of radio, television, and cable industries, with special emphases on broadcast economics and financial policies. 4 lec.

462 Electronic Media Management II (4)

Prereq: 460 or perm. Consideration of policies and practices with reference to sales management in radio and television stations. 4 lec.

467 Comparative Systems of Broadcasting (4)

Prereq: sr rank. Analyses of national broadcasting systems in terms of relevant political, social, economic, and cultural influences. 4 lec.

470 Mass Communication Theories (4)

Readings course surveying literature in mass communication theory. Special emphasis on electronic media. 2 lec.

471 Effects of Mass Communications (4)

Prereq: 470. Readings course designed to acquaint students with major areas of experimental research in individual and social effects of mass media. 2 lec.

479 History of Broadcasting (4)

Prereq: jr rank. Origin of systems of radio and television communication and their development to present. 4 lec.

490 Internship in Broadcasting (12)

Prereq: sr rank and perm. Broadcast or related industry experience under auspices of cooperating organization, with paper submitted detailing intern's experiences.

498 Special Problems (1-4, max 12)

Prereq: written proposal and perm.

499 Independent Readings in Radio-Television (1-4, max 12)

Prereq: written proposal and perm.

RADIO-TELEVISION (Associate Degree)

The following R-TV courses are available only at the Zanesville campus for the AAS program in radio-television:

122 Radio-Television Performance (4)

To provide overview of responsibilities required for radio and television announcing, and to provide practice and performance situations necessary to develop proficiency in performance skills.

209 Basic Radio-Television Technology (4)

Prereq: 208. Initiate study and understanding of principles of radio-television electronics as required by FCC regulations. Content includes sample materials and study for 2nd class FCC license.

210 Advanced Radio-Television Technology (4)

Prereq: 209. Continuation of 209, including study materials pertaining to 1st class FCC license.

211 Radio Production-Direction (4)

Prereq: 208. Principles of basic radio production and development of criteria for evaluation of radio production. 2 lec, 4 lab.

216 Introduction to Television Production (4)

Prereq: 208. Principles of basic television production and development of criteria for evaluation of television production. 2 lec, 4 lab.

217 Advanced Television Production (4)

Prereq: 216. Applications of basic studio production with emphasis on innovative techniques. 2 lec, 4 lab.

230 Broadcast Continuity (4)

Principles of writing for commercial and noncommercial broadcasting. 4 lec.

REAL ESTATE TECHNOLOGY

Real estate courses are available on the Athens campus through the Extension Division Office and at the regional campuses through the Continuing Education Offices. An associate of arts (AAB) degree in real estate technology is available at the Chillicothe campus.

101 Real Estate Principles and Practices I (4)

Real property is basic resource with which real estate professionals work. Course includes, but is not limited to: land and its description, rights and interests in real estate, contract law and real estate contracts, title transfer, deeds; leases, financing and mortgages, taxes, home ownership, urban planning, brokerage operations, appraisal and value, applied real estate math, and Ohio requirements for real estate licenses.

102 Real Estate Brokerage (4)

Prereq: 101 or perm. Expands on 101 and includes: specialized fields of real estate, principal-agent relationship, listing principles and practices, closing principles and practices, sales contract, principles of economics and real estate appraising, property insurance, real estate finance, federal laws regulating real estate practice, mathematics in real estate, and other facets of real estate needed by real estate professional; Ohio licensing laws and requirements.

103 Real Estate Law (4)

Prereq: 101. Includes all legal areas commonly concerned with typical real estate professional. Among topics covered are law of agency as applied to real estate brokers and salesmen, law of fixtures, estates, conveyancing of real estate, mortgages and liens, license laws of Ohio, and zoning.

201 Real Estate Appraising I (4)

Deals with appraisal theory, basic principles affecting value of real property; data accumulation and analysis of city, neighborhood, site, and property; applied techniques and estimating value from three approaches: building analysis, depreciation; entire range of appraisal process; and preparation based on field experience of preparing single family residential appraisal report.

202 Real Estate Appraising II (4)

Prereq: 201. Built on foundation of 201. Some topics are: data program, data classification and analysis, applying to cost approach, market data approach and income approach; indicated value correlation of value indications; final estimate of value.

Process or steps leading to appraisal report and validated data basic to mature judgment as to forces heretofore mentioned, directly or interweaving, will enable appraiser to present word portrayal of property, facts concerning that property and reasoning by which he or she has developed estimate of value.

204 Real Estate Finance (4)

Prereq: 101. Includes institutions, methods, instruments, and procedures involved in financing of real estate; nature and characteristics of mortgage loans, government influence on real estate finance, and nature of mortgage market. Effects of monetary and fiscal policies on real estate financing considered.

207 Real Estate Marketing and Management (4)

Prereq: Mgt 300 and Mkt 310. Twofold emphasis: marketing, which deals with estate transfer, matching of supply and demand, and sale of real estate as commodity; and management, which deals with means of obtaining highest and best use of land, achievements of maximum returns, as well as proper methods of accounting and record keeping. Student should increase his or her competency as consultant in use and reuse of land in its economic, social, and governmental contribution to society.

211 Real Estate and Government

Prereq: 101 or PolS 101. Such contemporary economic problems and issues as: unemployment, cost of inflation, poverty, guaranteed annual income, national debt, national health insurance, urban renewal, urban transportation, federal revenue sharing, consumer credit, aid to developing nations, and other topics rating newspaper and magazine headlines requiring study and judgment for decisions.

221 Real Estate Seminar (4)

Prereq: 204. Special topics in real estate covered. Areas include professionalism, ethics, salesmanship, human relations, F.H.A. and V.A. financing. Real estate office, advertising, building construction and materials, current issues, and problems facing real estate professional also considered.

RESERVE OFFICERS TRAINING

See Aerospace Studies or Military Science.

RUSSIAN

See Foreign Languages and Literatures.

SECRETARIAL TECHNOLOGY, GENERAL

The following courses for the AAB program in general secretarial technology are available only on the Chillicothe and Lancaster campuses.

111 Beginning Shorthand (3)

Introduction to theory of shorthand with emphasis on writing correct theory and developing reading rates. 3 lec, 2 lab.

112 Intermediate Shorthand (3)

Prereq: 111. Continuation of Shorthand I, completing theory, and developing skills of taking dictation and elementary transcription. 3 lec, 2 lab.

113 Advanced Shorthand (3)

Prereq: 112. Theory and speed building. Emphasis on developing speed in dictation and accuracy in transcription. 3 lec, 2 lab.

121 Beginning Typewriting (3)

Introduction to touch typewriting system with emphasis on correct techniques, mastery of keyboard, simple business correspondence, tabulation, and manuscripts. 3 lec, 2 lab.

122 Intermediate Typewriting (3)

Prereq: 121. Emphasis on production typing problems and speed building. Attention given to development of student's ability to function as an expert typist producing mailable copies. Production work involves tabulations, manuscripts, correspondence, and business forms. 3 lec, 2 lab.

123 Advanced Typewriting (3)

Prereq: 122. Advanced typing problems and techniques, knowledge and skills involved in production typewriting. Designed to acquire maximum in production for high-level office employment. 3 lec, 2 lab.

131 Secretarial Communications (3)

Review of basic English grammar with emphasis on improving capitalization and punctuation for more effective business-letter writing.

141L Legal Secretarial Terminology (2)

Prereq: 111, 121. Intensive course of study in legal terminology and vocabulary, including definitions, usage, derivations and spelling. 2 lec.

141M Medical Secretarial Terminology (2)

Prereq: 111, 121. Structure of medical words and terms. Emphasis on spelling and defining commonly used prefixes, suffixes, root words, and their combining forms. 2 lec.

171G General Secretarial Procedures I (3)

Prereq: 111, 121. Instruction in general office practices and general office filing. Emphasis on general rules and procedures in filing and records management along with general office routines. Personality development also discussed thoroughly. 3 lec, 2 lab.

171L Legal Secretarial Procedures I (3)

Prereq: 111, 121. Instruction in legal office practices and legal office filing. Emphasis on general rules and

procedures in filing and records management along with general office routines. Personality development also discussed thoroughly. 3 lec, 2 lab.

171M Medical Secretarial Procedures I (3)

Prereq: 111, 121. Instruction in medical office practices and medical office filing. Emphasis on general rules and procedures in filing and records management along with general office routines. Personality development also discussed thoroughly. 3 lec, 2 lab.

172G General Secretarial Procedures II (3)

Prereq: 171G. Emphasizes machine transcription utilizing complete production units concerning various industrial correspondence and documents. 3 lec, 2 lab.

172L Legal Secretarial Procedures II (3)

Prereq: 171L. Emphasizes machine transcription utilizing complete production units concerning legal correspondence and documents. 3 lec, 2 lab.

172M Medical Secretarial Procedures II (3)

Prereq: 171M. Emphasizing machine transcription utilizing complete production units concerning medical correspondence and documents, such as case histories, articles, and hospital reports. 3 lec, 2 lab.

189 Independent Study (1-5)

Prereq: perm of department coordinator. Studies in selected subject areas in secretarial field. May be repeated up to 5 credit hrs.

231 Office Machines (3)

Instruction and practice in operation of modern office machines and equipment including adding, duplicating, calculating, and transcribing machines. 1 lec, 5 lab.

241G General Dictation and Transcription I (3)

Prereq: 113, 123. Development of shorthand skills with emphasis on mailable copy. 3 lec, 2 lab.

241L Legal Dictation and Transcription I (3)

Prereq: 113, 123. Legal secretary preparation. Skill in taking dictation and transcribing material involving legal shorthand forms and phrases. Proficiency in use of legal vocabulary, forms, and procedures. 3 lec, 2 lab.

241M Medical Dictation and Transcription I (3)

Prereq: 113, 123. Medical secretary preparation. Skill in taking dictation and transcribing material involving medical shorthand forms and phrases. Proficiency in use of medical vocabulary, forms, and procedures. 3 lec, 2 lab.

242G General Dictation and Transcription II (3)

Prereq: 241G. Furthering of skills in taking dictation and transcribing various forms of correspondence. 3 lec, 2 lab.

242L Legal Dictation and Transcription II (3)

Prereq: 241L. Further development of skills in taking dictation and transcribing legal documents, instruments, and letters rapidly and accurately. 3 lec, 2 lab.

242M Medical Dictation and Transcription II (3)

Prereq: 241M. Further development of skills in taking medical dictation related to various types of medical correspondence such as case histories, articles, and hospital reports. 3 lec, 2 lab.

249 Internship I (2-5)

Prereq: 123, 231, 241. Practical field experience or in-class office simulation. 14-35 lab.

250 Seminar I (2)

Prereq: concurrent with 249. Special topics and problems encountered in field experience discussed. Opportunity to share ideas and experiences and to find possible answers to questions arising in actual working situations.

262 Report and Letter Writing (4)

Prereq: 122 and Eng 150 or equiv. Extensive and detailed practice in written communication using techniques utilized in business, industry, and professions involving composition of letters, memoranda, reports. 4 lec.

269 Office Administration (3)

Prereq: 123, 113, 172. Involves principles and practices in management of flow of information within an enterprise. Includes basic management functions of planning, controlling, organizing, and coordinating as applied to office services, physical facilities, systems and procedures, work measurement and standards, and business information systems. 3 lec.

289 Special Topics (1-5)

Prereq: perm of department coordinator. Projects concerning secretarial field explored on 1-to-1 basis with instructor.

293 Seminar II (2)

Concurrent with 299. Continuation of discussion concerning special topics and problems encountered in field experience. 2 lec.

299 Internship II (2-5)

Prereq: 249. Practical field experience or in-class office simulation continued. 14-35 lab.

SECURITY/SAFETY TECHNOLOGY

101 Introduction to Protective Services (3)

Introductory course designed to give an overview of many facets of private security profession. Student will be able to relate private security's function to its proper perspective in today's complex society and to see where private security and its various functions fit into criminal justice system.

110 Physical Security Systems (3)

Physical security requirements and standards. Course includes study of various physical security systems plus technical devices employed in industrial, retail, and institutional security operations.

120 Occupational Safety and Health (3)

Analysis and implementation survey of federal laws pertaining to occupational safety and health standards and criteria.

201 Fire Safety and Fire Codes (4)

Function and objective of fire prevention programs, *i.e.*, recognition and correction of fire hazards; enforcement of codes and ordinances; knowledge of federal, state, and local fire laws and codes. Further emphasis on fire prevention and fire protection.

210 Loss Prevention in Modern Retailing (3)

Detailed study of use of proper controls in loss prevention and loss detection in retailing industry. Emphasis to provide students with sound background for determining their needs in such areas as: physical security, inventory security, security surveys, personal screening, risk analysis, and loss prevention as total systems approach.

220 Analysis of Security Needs — Survey (3)

Methodology used in making security surveys, *i.e.*, selection of scope, team composition, design of survey, compiling data, evaluation of planning, implementation, and results of corrective measures.

230 Information and Data Systems Security (3)

Introduction to theory and application of automated information data systems. Detailed study of security hazards involved in use of data systems. Laws pertaining to Right to Privacy Act included as part of course content.

240 Security Administration (3)

Introduction to corporate security administration including historical and legal framework for security operations as well as detailed presentations of specific security processes and programs utilized in providing security.

250 Current Problems in Security (3)

Analysis of special problem areas in security such as: security education and training, community relations, labor problems, and disaster planning. Other specific areas analyzed for further research by individual students depending upon their interest. These later areas may include bank security, campus security, computer security, hospital security, and various other areas.

260 Analytical Accounting (3)

Specifically designed for security administration majors. Covers areas such as audit tracing, cash flow analysis, inventory system analysis, and other auditing principles used to protect assets and discover losses.

290A-Z Special Area Studies (3-4)

Courses designed to provide flexibility to satisfy needs of particular industry in our area or of an individual student who would like to pursue further study in a specialized area.

SOCIAL WORK

The Department of Social Work offers a flexible interdisciplinary curriculum designed to meet the requirements of students desiring to pursue academic or professional careers in areas of social work. Students completing the program will receive the AB degree with a major in social work. The Department of Social Work is fully accredited by the Council on Social Work Education. Graduates are qualified for full membership in the National Association of Social Workers.

The goal of the curriculum is to develop students capable of using themselves in creative and purposeful ways to deal with social problems that confront our society and its members. Students have considerable latitude in selecting sequences of courses related to their own needs and goals; however, students anticipating this major should consult with a member of the department as soon as possible to plan a program which will meet all degree requirements.

The requirements for a major in social work consist of: a minimum of 48 hours of courses in social work including 290, 391, 392, 393, 394 and the sequence in Social Work Practice: 490A, 490B and 490C. Zool 103, Human Biology; Psy 121, Elementary Statistics, or Soc 350, Social Statistics and Soc 351, Elementary Research Techniques; Psy 173, Child and Adolescent Psychology, and Psy 332, Abnormal Psychology or Psy 336, Social Psychol-

ogy, are required. In addition to the above, 42 hours must be taken in the social sciences including one course in each of the following: anthropology, economics, political science, psychology, and sociology.

101 Introduction to Social Welfare and Social Work (3)

Overview of field of social welfare with equal emphasis on fundamental concepts and services in social welfare and current and emerging tasks in profession of social work.

290 Social Security System (4)

Prereq: Econ 101 recommended. Programs, policies, and problems related to prevention and alleviation of economic insecurity in U.S. Special emphasis placed on social insurance and public assistance programs with evaluation of proposals for change.

380 Child Abuse and Neglect (3)

Prereq: jr or sr rank plus 18 hrs in social science. Examines processes of identification, reporting, referral, and case management of child abuse and neglect cases. Multidisciplinary approach to these processes described.

391 The American Social Welfare Institution (4)

Prereq: 290 or perm. Nature of social welfare as social institution, stressing scope of social welfare activity; historical development; value orientation; response to critical social problems, issues in social policy, and emergence of social work as profession.

392 Contemporary American Social Services (4)

Prereq: 391 or perm. Development of specific social services to meet human needs and evaluation in terms of their relevancy and adequacy in our present society. Individual studies in areas of particular interest (*i.e.*, child welfare, mental health, etc.)

393 Dynamic Human Behavior I (4)

Prereq: Psy 173. 1st in a 2-course sequence designed to present holistic approach to assessing human social functioning with emphasis on human diversity and integration of knowledge of human behavior fundamental to practice of social work. Particular attention given to interaction of individual and social environment in relation to development and social functioning throughout phases of life cycle.

394 Dynamic Human Behavior II (4)

Prereq: 393 and Psy 332 or 336. Expands on 393 and includes: exploration of various theoretical approaches to human behavior, assumptions upon which they are based and value questions arising in applying theory to practice; analysis of dysfunctions in personal and social systems in view of inter-relatedness of these systems.

395 Aging in the Welfare State (4)

Prereq: jr rank; plus 18 hrs in social sciences. Review of available knowledge on social life and problems of aged in America. Attention devoted to social welfare policies and services designed to meet needs of elderly.

396 Comparative Social Welfare Systems (3)

Prereq: 8 hrs of social welfare. Examination and comparison of social welfare problems and response-systems in various nations. Particular attention given to alternative modes of social service delivery.

490A Social Work Practice (8)

Prereq: 392 and perm. (fall) 1st of 3-qtr sequence offering field placement in organization related to

student's social work interest; laboratory on social work practice; and twice-weekly class. This qtr will focus on context of social work practice and development of analytical skills that allow students to deal systematically with problems of clients, organizations, and communities.

490B Social Work Practice (10)

Prereq: 490A and perm. (winter) Continuation of field placement qtr (with increased time in placement) and practice laboratory from previous qtr and twice-weekly class. Focus of this qtr's work upon theoretical perspectives relevant to social work treatment with individuals, families, and small groups.

490C Social Work Practice (10)

Prereq: 490B and perm. (spring) Continuation of previous qtr's field placement and practice lab with twice-weekly class emphasizing theoretical concepts and behavioral skills necessary for social work intervention in social systems larger than small groups, such as service organizations, neighborhoods, community political structures, etc.

493 Social Policy (4)

Prereq: 490A or perm. Examination of social policy stressing policy development; relationships of policy, goals and organizational structure, and decision-making patterns and role assignments within social welfare organizations and agencies.

498 Independent Studies and Special Projects in Social Work (1-10)

Prereq: 12 hrs in social work and perm. Student responsible for design and implementation of course of study or special project in area related to social work. Student interested in course must submit proposal for approval by department chairman at least 30 days prior to enrollment in course. Course may be repeated until 10 hrs of credit earned.

SOCIOLOGY

The major requirement for the AB degree in sociology is a minimum of 45 quarter hours of courses in sociology, of which at least 16 hours must be at the 400 level, and including: introductory sociology (101 or 302), one course in methods (350 or 351), and one course in theory (403 or 404). (Courses in anthropology count toward the Arts and Sciences social science requirement.)

In addition to the major in sociology, the department offers a minor. The requirement for the minor is a minimum of 28 hours of coursework in sociology, of which at least 12 hours must be at the 400 level and include one course in methods (350 or 351) and one course in theory (403 or 404).

The Sociology Department also offers a special program of study in the area of criminology. See the section entitled Special Curricula, in this catalog, under the College of Arts and Sciences for information concerning the program.

101 Introduction to Sociology (5)

Prereq: fr or soph rank. Nature of human society and factors affecting its development. Fundamental concepts of sociology: culture, personality, groups, institutions.

201 Contemporary Social Problems (4)

Prereq: 101 or jr or sr rank. Selected sociological perspectives on social problems considered. Specific social problems analyzed may include problems

related to crime, sexual inequality, marriage and family, minority groups, student protest, drug and alcohol abuse, mental illness, environment, and others. Replaces 100.

210 Introduction to Social Psychology (4)

Prereq: 101 or 302. Patterning of conduct through social interaction; functional analysis of individual-group relationships in various organizational contexts; current theory and research in field. Replaces 110.

211 Crowd and Mass Behavior (4)

Prereq: 101 or 302. Collective behavior resulting from social unrest; social contagion; formation and behavior of crowds; cults and sects; panic and disaster behavior; various types of mass behavior; impact upon social institutions. Replaces 111.

220 Introduction to the Family (4)

Prereq: 101 or 302. Primary emphasis on American family and how it has been changing. Among specific topics explored are interaction within family, family in relation to other institutions, mate-selection, marriage and its alternatives, family disorganization, and future of American family.

223 American Society (4)

Prereq: 101 or 302. Sociological analysis of major contemporary social issues. Specific issues analyzed may include industrialization, urbanization, bureaucracy, militarism, structure of power, racism, inequality, abortion, and others.

230 Sociology of Poverty (4)

Prereq: 101 or 302. Critical examination of theories of poverty, how poverty is defined and measured, theoretical implications of research on the poor, consequences of poverty, and strategies to fight poverty.

231 Sociology of Health and Health Care (4)

Prereq: 101 or 302. Examination of social definitions of health and disease, distributions of health and disease, and health care delivery. Particular attention devoted to medical education, various health care delivery systems, and contemporary social issues in medicine.

302 Principles of Sociology (5)

Prereq: jr or sr rank. Same as 101, covered in more intensive manner. Not open to students who have taken 101.

305 Readings in Sociology (1-6, max 6)

Prereq: 16 hrs and perm. Independent, directed readings designed to expand student's understanding in selected area of interest.

309 Sociology of Appalachia (4)

Prereq: 101 or perm. Intensive study of Appalachia from sociological perspective. Emphasis on population of Appalachia (number and distribution of inhabitants, characteristics of population, vital processes and migration), culture of rural poverty, acceptance of innovation and social change in Appalachia, major social institutions in area, and community power structure in Appalachia.

315 The Individual in Mass Society (4)

Prereq: jr or sr rank. Analysis of implication of cultural and social complexity for processes of individuation, identity formation, and identity maintenance. Consideration of simultaneous growth of secondary relations and dissolution of primary relations, and significance of these to social, psycholog-

ical, and cultural organization as we approach automated society.

327 Sociology of Education (4)

Prereq: 8 hrs. School as social institution in relation to community and development of child; comparative systems of education; sociology of learning and teaching.

329 Minority Group Relations (4)

Prereq: 8 hrs. Racial, male-female, and ethnic problems in America; causes and consequences of prejudice and discrimination.

331 Class and Social Inequality (4)

Prereq: 8 hrs. Causes and consequences of class and social inequality in selected societies. Critical examination of ideologies that claim to justify inequality. Replaces 431.

335 Economic Sociology (4)

Prereq: jr or sr rank; 8 hrs of sociology. Consideration of dynamics and social and cultural effects of various systems of power. Main focus is to analyze extent to which selected capitalist and socialist systems produce concentrated power, inequality, alienated work and life styles, and imperialism; also to analyze strategies for change in U.S.

340 Population Analysis (4)

Prereq: 8 hrs. Social and cultural determinations and consequences of changes in fertility, mortality, and migration. Current and historical national and international population policies and programs.

350 Social Statistics (4)

Prereq: 101 or 302. Principles and procedures in treatment and presentation of quantitative social data. Methods of measuring central tendency, dispersion, and association. Scientific sampling, estimation, and tests of significance.

351 Elementary Research Techniques (4)

Prereq: 8 hrs. Research techniques in sociology. Research design; collection, recording, and analysis of data.

352 Field Studies in Sociology (4)

Prereq: 351. Planning, execution, and write-up of empirical study, utilizing skills developed in 351. Limited class meetings, conferences with instructor, research report.

361 Deviant Behavior (4)

Prereq: 8 hrs. Theory and research concerning major types of deviant behavior and societal reaction to such things as criminality, suicide, drug addiction, and mental disorders. Causes and consequences of deviant behavior.

362 Criminology (4)

Prereq: 8 hrs. Theories and research in criminal behavior and societal reaction to criminality. Causes and consequences of crime.

363 Juvenile Delinquency (4)

Prereq: 8 hrs. Theories and research in delinquency. Causes and consequences of delinquent behavior among juveniles.

364 Penology (4)

Prereq: 101; 361 or 362 or 363. Examination of history, operation, and problems of punishment. Patterns of prison organization, inmate group structure, personnel organization, and racism examined. Purpose and effectiveness of penal institutions de-

scribed. Prisons, juvenile institutions, parole, half-way houses, and alternatives to punishment studied.

403 Development of Sociological Thought (4)

Prereq: 8 hrs. Major sociological concerns and concepts in relation to their social-historical setting. Special emphasis upon sociological thought in 18th and 19th centuries.

404 Modern Sociological Theory (4)

Prereq: 12 hrs. Critical examination of major sociological conceptual frameworks in 20th century.

406 Proseminar in Sociology (4)

Prereq: 20 hrs. Critical examination of selected theoretical and research problems. Primarily for advanced students in sociology.

408 Latin American Society (4)

Prereq: 8 hrs or prev course on Latin America or perm. Intensive study of Latin American society from sociological perspective. Emphasis on contemporary Latin American values, population problems, man-land relations, levels and standard of living, social institutions, urbanization, and social change.

412 Public Opinion Processes (4)

Prereq: 210 or 211. Attitudes and opinions in relation to formation of public opinion; political socialization and participation; social status, reference groups, decisionmaking; role of mass media.

413 Mass Communication (4)

Prereq: 210 or 211. Personal and social functions of content in newspapers, radio, television, and film. Types of audiences and communication effects. Organization and control of mass media and problems in evaluation.

414 Contemporary Social Movements (4)

Prereq: 8 hrs. Organized movements resulting in major social changes: revolutionary, nationalistic, reform, religious; agitation, leadership, ideology; case studies of typical movements.

416 Society and the Individual (4)

Prereq: 8 hrs sociology and psychology or perm. Exploration of compatibilities and/or contradictions in psychological systems, culture, and social structure.

419 Small Group (4)

Prereq: 210 or 12 hrs of psychology. Major theories and methods for study of small group theories and methods for study of small group as unit of social systems; communication patterns, role definition, leadership, cohesion, etc.; review of current literature.

421 Comparative Studies of Family (4)

Prereq: 8 hrs. Intracultural and crosscultural differences and similarities in marriage patterns and family types, their social and cultural determinants and consequences, and their significance for family life.

422 The American Family System (4)

Prereq: 8 hrs. Historical development of nuclear family in Europe and America. Special attention given to change of family patterns since colonial times and conditions leading to formation of American family, including problems and challenges this family system faces today.

424 Urban Sociology (4)

Prereq: 8 hrs. Historical development and recent emergence of city as dominant feature of modern

social life. Special emphasis upon demographic and ecological patterns and social organization of urban region.

425 Rural Sociology (4)

Prereq: 8 hrs. Historical developments and current trends in populations and communities in rural areas of United States, with focus on implications for whole society of mechanization and industrialization of agriculture. Appropriate technology, back-to-the-land movement discussed.

426 Industrial Sociology (4)

Prereq: 8 hrs. Interrelationship between industrial and social order. Special attention to social organization and processes within formal and informal structure of industrial unit.

428 Sociology of Religion (4)

Prereq: 8 hrs. Interrelationship between religious institution and social structure from comparative perspective and with particular reference to American society.

430 Sociology of Organization (4)

Prereq: 8 hrs. Organization and structure of social groups. Basic cultural patterns of economic, kinship, and other institutions. Integration and disintegration of social groups and institutions.

432 Political Sociology (4)

Prereq: 8 hrs. Social and cultural basis of influence, power, and authority. Emphasis upon informal aspects of political process in groups and institutions other than government.

433 Sociology of Occupations and Professions (4)

Prereq: 8 hrs. Professionalism as characteristic of modern economic and industrial complexes; popular conception and modern theory; social and technological preconditions; occupation-profession continuum; components, barriers, and strategy; mock-professionalism; motivation and satisfaction; controls; professionalism in particular professions.

453 Research Problems in Sociology (2-6)

Prereq: 20 hrs including 351 and written perm prior to registration. Individual research in specific problem areas in which student has demonstrated ability and interest.

464 Social Control (4)

Prereq: 12 hrs. Nature of institutional control and sociocultural constraint as they affect human behavior. Theories and research.

465 Social Change (4)

Prereq: 12 hrs. Dynamics and processes by which social change takes place; major theories of change; industrialization and modernization; social evolution and revolution; planned change; social impact of change.

SOUTHEAST ASIAN STUDIES

See International Studies.

SPANISH

See Foreign Languages and Literatures.

SWAHILI

See Foreign Languages and Literatures.

THEATER

The following courses of instruction in theater provide the student with further clarification of the curricular requirements and models outlined in the School of Theater section of the College of Fine Arts chapter in *Colleges and Curricula*. It must be emphasized that all theater majors maintain close contact with their assigned advisors for guidance and clarification in programming. If an advisor has not been assigned, please contact the School of Theater office on the third floor of Kantner Hall. Further information concerning course listings may be received through the School of Theater office or the listed instructor.

101 Introduction and Orientation to the Theater as a Profession (1)

(fall) Designed to acquaint theater premajors and other interested students with professional theater. Will examine varieties of theater institutions (educational, commercial, regional, etc.), role of administrator, producer, and director, and historical background for state of American theater.

102 Introduction and Orientation to the Theater as a Profession (1)

(winter) Continuation of 101 with particular emphasis on training and job opportunities for actors, scene designers, costume designers, and lighting designers.

103 Introduction and Orientation to the Theater as a Profession (1)

(spring) Continuation of 101 and 102 with particular emphasis on training and job opportunities for theater managers and arts administrators (stage managers, technical directors, house managers, business managers); training in other countries, history, purpose, and present function of theater unions; important theater journals and associations; and specialized training for related theater fields.

105 Practicum in Management (2-4)

Prereq: interview, fr rank. Supervised lab practice in problems of theater publicity, finance, and house management. May be repeated.

110 Introduction to Performance (4)

Introductory study of acting and actor. Emphasizes preparation of self and text, exploration of space, development of physical and vocal freedom through improvisation and theater games.

130 Technical Production: Scenery (3)

(fall) Principles of technical production. 2 lec, 1 lab.

131 Technical Production: Lighting (3)

(winter) Principles of technical production. 2 lec, 1 lab.

132 Technical Production: Costume (3)

(spring) Principles of technical production. 2 lec, 1 lab.

135 Practicum in Production Design (2-4)

Prereq: interview, fr rank. Supervised lab practice in design and execution of scenery, lighting, costumes, properties, and sound. May be repeated.

170 The Theater Experience (4)

Exploration of nature and function of theater as art form through exploration of performer/space/audience interrelationship. Attendance at selected rehearsals and performances of Ohio University Theater productions augment lecture and discussion sessions.

**171 Introduction to Play Analysis:
A Basis For Production (3)**

Prereq: 170. (winter, spring) Introduction to text analysis based on premise that understanding of play's text is important step toward understanding both performance of that play and means by which that performance is created. Attendance at Ohio University Theater productions is important augmentation to class lectures and group discussions.

205 Practicum in Management (2-4)

Prereq: interview, soph rank. Supervised lab practice in problems of theater publicity, finance, and house management. May be repeated.

210 Acting I (4)

Prereq: 110, soph or above. Principles and techniques of acting with major emphasis on developing trust and freedom. Warm-up techniques, theater games, improvisation, monologue exercises, and preliminary scoring techniques underline this introduction to work of actor.

211 Acting II (4)

Prereq: 210. (winter, spring) Continuation of training started in 210, with addition of more detailed character development, scoring techniques, and ensemble considerations through duet scene work.

212 Acting III (4)

Prereq: 211. (spring) For serious acting student this course completes sequential training program. Primary emphasis is to apply techniques learned in 210 and 211 to more lengthy and complicated scene structures. Long duet scenes and multi-character scenes or short plays used for study and performance. Graduate directors and public performance frequently incorporated into final work in this course.

215 Practicum in Acting (2-4)

Prereq: audition, interview, soph rank. Supervised lab practice in rehearsal and public performance of roles. May be repeated.

216A Body Training (2)

(fall) Individual and group instruction in basic elements of body training for stage.

216B Body Training (2)

Prereq: 216A. (winter) Continuation of 216A; see 216A for description; must be taken in sequence.

216C Body Training (2)

Prereq: 216B. (spring) Continuation of 216A-216B; see 216A for description; must be taken in sequence.

217A Voice Training (2)

(fall) Individual and group instruction in basic elements of vocal training for stage.

217B Voice Training (2)

Prereq: 217A. (winter) Continuation of 217A; see 217A for description; must be taken in sequence.

217C Voice Training (2)

Prereq: 217B. (spring) Continuation of 217A-217B; see 217A for description; must be taken in sequence.

230 Stagecraft: Scenery (3)

Prereq: 130. (fall) Procedures and practice in theatrical production; practical experience. 2 lec, 4 lab.

231 Stagecraft: Lighting (3)

Prereq: 131. (winter) Procedures and practice in theatrical production; practical experience. 2 lec, 4 lab.

232 Stagecraft: Costume (3)

Prereq: 132. (spring) Procedures and practices in theatrical production; practical experience. 2 lec, 4 lab.

235 Practicum in Production Design (2-4)

Prereq: interview, soph rank. Supervised lab practice in design and execution of scenery, lighting, costumes, properties, and sound. May be repeated.

237 Basic Makeup (1)

Prereq: theater or perm. Theory and practice of stage makeup. 1 lec, 1 lab.

240 Introduction to Child Drama (2)

(fall) Informal theater by children and formal theater for children; their roles in artistic and educational development of children. 2 lec, 1 lab.

270 Theater History I (3)

(fall) Development of theater and drama in prehistoric, Greek, and Roman periods.

271 Theater History II (3)

(winter) Development of theater and drama in Medieval and Renaissance periods.

272 Theater History III (3)

(spring) Development of theater and drama from Renaissance to modern.

301 Play Production (4)

Fundamentals of theatrical production. Lab experience. 3 lec, 2 lab.

305 Practicum in Management (2-4)

Prereq: interview, jr rank. Supervised lab practice in problems of theater publicity, finance, and house management. May be repeated.

310 Scene Study I (2-4)

Prereq: 212 and perm. (fall) Intensive, performance-oriented experience for advanced undergraduate actor. Concentrates on scripted material directed by 2nd-yr graduate students, and designed to focus on actor's individual training needs.

311 Scene Study II (2-4)

Prereq: 212 and perm. (winter) Intensive study of and experience with nonscripted materials under supervision of master teacher and 2nd-yr graduate directors. Experimental and improvisational theater are primary performance forms studied and experienced.

312 Scene Study III (2-4)

Prereq: 310 or 311 and perm. (spring) Extension of rehearsal/performance experience in 310 and 311. Advanced undergraduate rehearses and performs in scenes directed by 2nd-yr graduate directors, and selected to enhance dramatic range.

315 Practicum in Acting (2-4)

Prereq: audition, interview, jr rank. Supervised lab practice in rehearsal and public performance of roles. May be repeated.

316A Stage Movement (2)

Prereq: 216C; theater major. (fall) Principles and techniques of expressive movement.

316B Stage Movement (2)

Prereq: 316A. (winter) Principles and techniques of expressive movement.

316C Stage Movement (2)

Prereq: 316B. (spring) Principles and techniques of expressive movement.

317A Voice for the Stage (2)

Prereq: 217C; theater major. (fall) Principles and practice in vocal action for stage.

317B Voice for the Stage (2)

Prereq: 317A; theater major. (winter) Principles and practice in vocal action for stage.

317C Voice for the Stage (2)

Prereq: 317B; theater major (spring) Principles and practice in vocal action for stage.

320 Directing I (4)

Prereq: 211. Principles and practices of directing for stage.

333 Theatrical Rendering (3)

Prereq: 230, 231, 232. (fall) Drafting, perspective, color, and rendering as applied to production design. 2 lec, 2 lab.

334 Scene Design (4)

Prereq: 333. (winter, spring) Principles and projects in scene design as part of production design. 2 lec, 2 lab.

335 Practicum in Production Design (2-4)

Prereq: interview, jr rank. Supervised lab practice in design and execution of scenery, lighting, costumes, properties, and sound. May be repeated.

337 Advanced Makeup (3)

Prereq: 237. (fall, winter) Corrective, 3-dimensional, and nonrealistic makeup; rubber prosthesis; character analysis. 1 lec, 2 lab.

338 Historical Bases of Design (4)

Prereq: 230, 231, 232. (spring) Art history from pre-historic times and application to production design. 4 lec.

340 Dramatic Literature for Children (3)

(winter) Examination of plays for child audiences and literature for dramatization by children. 3 lec.

350 Playwriting (3)

Prereq: perm. (fall) Theory and practice of dramatic writing.

380 Musical Theater Projects (1-4)

Prereq: perm. Participation in selected musical theater projects announced in advance of registration. Orientation may be either research or production.

402 Theater Management (4)

(fall) Procedures and practices in management of theater, including theater publicity, marketing, finance, ticket office, and house management.

405 Practicum in Management (2-4)

Prereq: interview. Supervised laboratory practice in problems of theater publicity, finance, and house management.

409 Independent Studies in Administration (1-6)

Prereq: perm. Allows advanced theater major to

develop study project in aspects and problems of *theater administration* beyond normal course offerings.

410 Advanced Acting (3)

Prereq: 312 or perm. (winter) Exploration of specific problems in acting through use of exercises, monologues, and scenes.

413 Acting Internship (1-12)

Prereq: perm.

415 Practicum in Acting (2-4)

Prereq: audition/interview. May be repeated. Supervised laboratory practice in rehearsal and public performance of roles.

416 Advanced Stage Movement (2)

Prereq: 316C and perm. (winter) Connection and application of stage movement to role or roles in period plays; involves seeking out of tempos and rhythms of character and examining how they differ in various periods.

417 Advanced Voice Training: Dialects and Scansion (2)

Prereq: 317A, B, C or perm. (spring) Introduction to and experience in scanning essentials of versification as it particularly applies to reading of dramatic lines. Introduction to study of dialects through use of study tapes and other source materials.

419 Independent Studies in Acting (1-6)

Prereq: perm. Advanced theater major can develop study project in aspects and problems of acting beyond normal course offerings.

420 Directing II (4)

Prereq: 320. (winter, spring) Practical experience in directing for stage.

421 Directing III (4)

Prereq: 420 or equiv and perm. (winter, spring) Advanced directing projects proposed by and awarded to sr undergraduates who have demonstrated specific directorial talent and interest. Projects supervised and juried by total directing staff.

426 Stage Management (3)

Prereq: sr rank and/or perm. (fall) Theoretical course in techniques and methods of professional stage management.

427 Practicum in Stage Management (2-4)

Prereq: 426 and perm. Supervised practical experience in stage managing of university theater or related production.

429 Independent Studies in Directing (1-6)

Prereq: perm. Advanced theater major can develop study project in aspects and problems of *directing* beyond normal course offerings.

430 Advanced Stagecraft (4)

Prereq: 230, 231, 232, 333. (fall) Advanced problems of scenery construction, handling, and rigging. 2 lec, 2 lab.

431 Theory of Lighting (4)

Prereq: 230, 231, 232, 333. (spring) Creative processes in design and execution of lighting for proscaenium and nonproscaenium forms. 3 lec, 2 lab.

432 Costume Design (4)

Prereq: 438. (winter) Application of principles of design to stage costuming, with emphasis on fabrics, figure drawing, and characterization. 2 lec, 2 lab.

433 Scene Design II (4)

Prereq: 334. (spring) Challenges student with series of design projects based on past periods of dramatic literature and art.

434 Projects in Production Design (4)

Prereq: sr rank and perm. Juried critiques of student projects by total faculty in production design. Projects concerned with integration of scenery, costumes, lighting, properties, and sound to achieve stylistic impact, leading to useful portfolio.

435 Practicum in Production Design (2-4)

Prereq: interview. Supervised laboratory practice in design and execution of scenery, lighting, costumes, properties, and sound.

436 Properties and Special Effects (4)

(winter) Problems of properties, sound, and special effects. 2 lec, 2 lab.

438 History of Costume (4)

Prereq: 230, 231, 232. (fall) Development of dress and influence of cultural factors from Egyptian and Asian civilizations, including fabrics, accessories, and ornamentation. 4 lec.

439 Independent Studies in Production Design (1-6)

Prereq: perm. Advanced theater major develops study project in aspects and problems of *production design* beyond normal course offerings.

440 Children's Theater (3)

Prereq: 340 or perm. (spring) Philosophies and practical production procedures for child audiences. 2 lec, 2 lab.

441 Creative Dramatics (3)

Prereq: 340 or perm. (winter - odd years) Methods and techniques of guiding children through art of creation of informal drama with special emphasis on elementary age children.

449 Independent Studies in Children's Theater (1-6)

Prereq: perm. Advanced theater major develops study project in aspects and problems of *children's theater* beyond normal course offerings.

450 Advanced Playwriting (3)

Prereq: 350 or perm. (winter, spring) Special problems in writing long play.

451 Playwrights Workshop (3, max 9)

Prereq: perm. Practical workshop experience for playwrights, directors, and actors with new scripts. May be repeated.

459 Independent Studies in Playwriting (1-6)

Prereq: perm. Advanced theater major develops study project in aspects and problems of *playwriting* beyond normal course offerings.

465 Practicum in Directing (1-4)

Prereq: perm. Supervised laboratory practice in planning and executing dramatic production.

470 Greek Theater and Drama (4)

(fall, odd academic years) Drama, theater, and audience in ancient Greece. 3 lec.

471 Roman and Medieval Theater (4)

(winter, odd academic years) Intensive study of drama and theater of Roman and Medieval Europe. 3 lec.

472 Renaissance Theater and Drama (4)

(spring, odd academic years) Development of European theater and drama in Renaissance. 3 lec.

473 18th Century Theater (4)

(spring, odd academic years) Drama, theater, and audience in England from Restoration through 18th century. 3 lec.

474 Baroque European Theater (4)

(fall, even academic years) Detailed study of theater and drama of Europe in Baroque period. 3 lec.

475 19th Century European Theater (4)

(winter, even academic years) Major developments in drama and theater in Europe during 19th century. 3 lec.

476 Contemporary Theater (4)

(spring, even academic years) Trends and developments in 20th century theater. 3 lec.

477 American Theater and Drama (4)

(spring, even academic years) Development of theater and drama in North America from colonial to modern times. 3 lec.

479 Independent Studies in Theater History and Criticism (1-6)

Prereq: perm. Advanced theater major develops study project in aspects and problems of *theater history and criticism* beyond normal course offerings.

480 Advanced Musical Theater Projects (2-4)

Prereq: 380 or equiv. Supervised scene study drawing from wide range of musical theater literature — opera to musical comedy and cabaret work. Each project designed and selected to meet individual student's needs and interests.

489 Independent Studies in Musical Theater (1-6)

Prereq: perm. Advanced theater major can develop study project in aspects and problems of *musical theater* beyond normal course offerings.

UNIVERSITY COLLEGE

110 Effective Study Skills (2)

Prereq: fr or perm. Review of basic study skills. Practice in effective reading techniques and differentiation of types of study. Vocabulary development, examination preparation, time management, and note taking also stressed.

112 Speed Reading and Comprehension (2)

Prereq: fr or perm. Emphasis on flexibility of reading patterns. Analyzes organizational patterns of printed materials; attempts to improve reading speed and comprehension levels while affecting students' attitudes toward reading.

ZOOLOGY AND MICROBIOLOGY

The major requirements for the AB and BS in zoology (Major Code #2121) degrees are a minimum of 40 and 50 quarter hours respectively in approved departmental courses. Departmental course requirements include Zool 150, 151, 325; 303 or 430; 448 and 449 or 460 and 461; 475 or 477 or 479. Extradepartmental courses required for both the AB and BS degrees are: Bot 111; Chem 141, 142, 143,

301, and 302; Psy 121; Math 163A and B or 263A and B; and Phys 201, 202; and 203.

The major requirements for the BS in microbiology (Major Code #0411) are as follows: Micr 411, 412, 413, 414, 415, 419, 463, and at least one of the following: Micr 211, 418, 433, 441, Bot 310, or 420. Extradepartmental courses required include: Zool 150 and 325; Bot 111; Math 163A or 263A; Chem 141, 142, 143, 301, 302, 303, 304, and 325; Phys 201 and 202. Though not required for the major, students preparing for advanced training should include the following: Psy 121, Chem 351 and Phys 203.

Other programs are outlined in the College of Arts and Sciences section of the catalog for students preparing for dentistry, medical technology, medicine, optometry, and physical therapy, any one of which may also lead to a baccalaureate degree with a major in zoology. The outlined curricula should be consulted regarding the specific requirements for each; they do contain different sets of requirements from those given in the above paragraph. Students who wish to teach and also receive the AB or BS degree with a major in zoology or microbiology must satisfy requirements for both teaching certification and the major.

Majors are not permitted to take on a pass/fail basis any course (departmental or extradepartmental) which is required to fulfill minimum major or special curriculum requirements. No grade which proves to be honestly and correctly issued by a departmental faculty member will be changed.

MICROBIOLOGY

211 Environmental Microbiology (3)

Prereq: one qtr biological science or chemistry or perm. (fall, spring) *J. Lawrence*. Natural microbial activities, their function in waste and pollution reclamation and disposal, water purification, food production and spoilage, and in public health. 3 lec.

212 Environmental Microbiology Laboratory (2)

Prereq: 211 or with 211. (fall, spring) *J. Lawrence*. Characteristics and activities of microbes of special relevance to man's welfare and those affecting maintenance of environmental quality. 2 lab.

411 General Microbiology (6)

Prereq: 10 hrs biological science; organic chemistry. (fall, winter) *S. Maier, R. Downey*. Properties of bacteria and other protists and their importance in our environment. Laboratory training in common bacteriological methods. 3 lec, 6 lab.

412 Microbiological Techniques (5)

Prereq: 411, perm. (winter) *S. Maier*. Semi-independent course gives microbiology major extensive experience in use of bacteriological techniques and equipment; information retrieval. 2 lec, 8 lab.

413 Pathogenic Bacteriology (6)

Prereq: 411. (winter) *J. Lawrence*. Microorganisms in relation to disease. Disease manifestations, diagnostic and control methods; some aspects of immunity. 3 lec, 6 lab.

414A Animal Virology (3)

Prereq: 411 and perm. (winter) *R. Walker*. Study of viral and rickettsial agents pathogenic to man and animals. Isolation and identification methods, physico-chemical and biological properties. Pathology, cure, and prevention of selected prototype diseases. 3 lec.

414B Animal Virology Laboratory (1)

Prereq: to be taken concurrently with 414A, perm. (winter) Limited to microbiology majors, others by perm if seats available. 2 lab and arr.

415 Immunology (6)

Prereq: 411. (spring) *R. Walker*. Fundamental concepts of immunity, how produced, advantages and disadvantages; fundamental immunological phenomena. 3 lec, 6 and arr lab.

417 Advanced General Microbiology (6)

Prereq: 411 or perm. (fall) *J. Lawrence*. Lectures, readings, and laboratory experiments on selected topics in applied microbiology: water preparation and testing, sewage and solid waste disposal, nutrient recycling, food microbiology, and microbial interactions with higher plants. 2 lec, 4 lab.

418 Epidemiology (4)

Prereq: 411 or 437 or 441, and perm. (fall) *R. Walker*. Mode of spread, cure, and prevention of communicable diseases in humans. 3 lec, 2 lab.

419 Bacterial Physiology (6)

Prereq: 411, 463 or equiv. (spring) *S. Maier*. Nutrition, function, and metabolism of bacteria; pertinent laboratory work illustrating fundamental principles and various experimental techniques. 3 lec, 5 lab.

427 Molecular Genetics (3)

Prereq: 325 or Bot 431, organic chemistry; perm. (winter; alternate yrs) *J. McQuate*. Gene action and fine structure; biochemistry of heredity; cytoplasmic inheritance. 3 lec.

433 General Protozoology (6)

Prereq: 15 hrs in biological sciences. (fall; alternate yrs) *W. Peterson*. Structure, life histories, physiology, and relationships of representatives from all major groups of protozoa. 3 lec, 5 lab.

441 Parasitology (6)

Prereq: 151. (spring) *O. Heck*. Etiology of human parasites, their transmission, diagnosis, and prevention. 3 lec, 6 lab.

463 Cell Chemistry (4)

Prereq: organic chemistry. (fall, spring) *J. Wilson, J. McQuate*. Chemistry of carbohydrates, lipids, proteins, and nucleic acids. Principles of enzyme activity and kinetics; metabolic pathways. 4 lec.

482 Topics in Microbiology (1-6, max 8)

Prereq: 20 hrs of microbiology including 411; 2.5 gpa in major courses; perm. Individual or small-group study of specialized topics in microbiology under supervision of instructor.

485 Undergraduate Research (1-3, max 12)

Prereq: 20 hrs and 2.5 gpa in major courses; perm from specific professor. Independent research under supervision of staff member.

H485 Undergraduate Research (1-4, max 12)

Prereq: 3.0 gpa in sciences, perm. Individualized and directed research. Students select topics or are directed into possible research areas.

H495 Undergraduate Research (Thesis) (3-9, max 15)

Prereq: H485, 3.0 gpa in sciences, sr rank. Independent departmental honors research under supervision of staff member. Student should enroll qtr he or she expects to complete thesis.

ZOOLOGY

101 Principles of Biology (5)

Designed for nonscience majors. Principles of cell biology, physiology, ecology, genetics, and evolution. (Same as Bot 101.) Credit not allowed for both 101 and 150. 3 lec, 2 lab.

103 Human Biology (4)

(fall, winter, spring) *W. Witters, P. Jones*. Effect of man on ecosystem, including pollution and population relationships. Emphasis on drugs, their abuse, their pharmacology, and recent research findings on effects of drugs on humans. Reproductive physiology, contraceptive technology and research, biological aspects of abortion, and venereal disease. 4 lec.

150 Introduction to Zoology (6)

Prereq: Chem 141 (or concurrent) recommended. (fall, winter) Designed for science majors, preprofessional (biological), and science modular students. Principles of cell biology, physiology, development, and genetics. Credit not allowed for both 101 and 150. 4 lec, 4 lab.

151 Introduction to Zoology (6)

Prereq: 150 or Bot 110 or perm. (winter, spring) Continuation of 150. Designed for science majors, preprofessional, and science modular students. Principles of evolution, ecology, and behavior; and a laboratory survey of major phyla. 4 lec, 4 lab.

271 Field Ornithology (2)

(spring) *H. Seibert*. Techniques and identification of birds in the field in southeastern Ohio. 4 lab.

300 Elements of Human Anatomy and Histology (6)

Prereq: 151; not open to fr. (fall) *B. Allen*. Basic tissues and organ systems of human body. Cat used for dissection. For medical technology, prenursing, premortuary, and prepharmacy students. 4 lec, 4 lab.

301 Human Anatomy (6)

Prereq: 101, not open to fr. (fall, winter) *F. Hagerman*. Structure of body systems with particular emphasis on human skeletal and neuro-muscular systems. Cat used for dissection. For physical education and prephysical therapy students only. 3 lec, 6 lab. (Same as HPER 301).

303 Comparative Vertebrate Anatomy (6)

Prereq: 151, not open to fr. (winter, spring) *B. Allen*. Comparative study of body systems of vertebrates, with lab work covering various type forms. 3 lec, 6 lab.

305 Histological Technique (3)

Prereq: 151, jr or sr rank. (fall, spring) *J. Gault, W. Peterson*. Principles and methods of preparing animal tissues for microscopic study. 1 lec, 4 lab.

325 General Genetics (5)

Prereq: 151 or Bot 110. (fall, spring) *J. McQuate*. Principles and concepts of genetics as revealed by classical and modern investigation. 5 lec.

326 Laboratory Genetics (4)

Prereq: 325. (winter) *J. McQuate, J. Jollick*. Experiments with *Drosophila*, bacteria, and bacterial viruses designed to illustrate principles of genetics. Preparation of slides and karyotyping of chromosomes of man. 6 lab.

345 Human Physiology (4)

Prereq: 300 or 301; not open to fr. (spring) *I*

Hagerman. Functions of various systems as applied to human. Special reference to physiological adaptations to environment and regulatory functions. For education, medical technology, physical education, and prephysical therapy students only. (Same as HPER 345.) 4 lec.

346 Human Physiology Laboratory (3)

Prereq: anatomy, 345 or with 345. (spring) *F. Hagerman*. Laboratory experiences designed to complement material covered in 345. For prephysical therapy students; others by perm only. 6 lab.

352 Kinesiology (4)

Prereq: 301. Analysis of human motion based on anatomical and mechanical principles. 4 lec. (Same as HPER 252).

373 Behavior of Man and Other Animals (4)

Prereq: not open to fr. (fall, alt yrs) *J. Rovner*. Introduction to human ethology, zoological approach to human behavior. Emphasis on primate, child, and cross-cultural studies. 4 lec.

382 Topics in Zoology (1-3)

Prereq: 150 or Bot 110, perm of specific instructor. Individual or small-group study, under supervision of instructor, of topics not otherwise available to undergraduate students. Credit not applicable toward major in zoology or microbiology.

384 Bioethical Problems in Biology and Medicine (5)

Prereq: 9 hrs biological science. (winter) *W. Witters*. Ethical problems arising from rapid advances in biological and biomedical research. Topics include: human experimentation, fetal research, informed consent, death with dignity, euthanasia, biological engineering, reproductive advances, sex control, test tube babies, surrogate mothers, behavioral modification with drugs, electronics and surgery, health care delivery, mental health, and genetic screening. 5 lec.

390 Biology and the Future of Man (5)

Prereq: perm. (spring) *W. Witters*. Course covers following areas: human sexuality, physiological effects of environmental pollutants, drugs of abuse and introduction to advances in biological technology that influence future of man. Those having had 103 must do special projects due to some repetition. 4 lec, 1 arr.

391 Biology of Human Sexuality (4)

Prereq: 2 biology courses. Investigation of biological aspects of human sexuality. Emphasis on biological mechanisms concerning: fertilization, sex of child, development and growth, human sexual responses, sexual variation and deviation, sexual dysfunction and therapies, drug influence on sexuality, modern reproductive technologies, and contraceptive research.

404 Comparative Vertebrate Anatomy — Mammalian (6)

Prereq: 303. (fall) *B. Allen*. Continuation of 303. Anatomy of mammals with particular emphasis on the cat. 3 lec, 6 lab.

406 Vertebrate Embryology (6)

Prereq: 300 or 303. (winter, spring) *W. Peterson*. Development from gametogenesis to organogenesis in representative vertebrate types with laboratory emphasis given to chick and pig. 4 lec, 4 lab.

408 Histology (6)

Prereq: 303. (winter) *O. Heck*. Cells, tissues, and

organ systems with regard to their morphological and physiological properties. 4 lec, 4 lab.

427 Molecular Genetics (3)

Prereq: 325 or Bot 431, organic chemistry; perm. (winter; alternate yrs) *J. McQuate*. Gene action and fine structure; biochemistry of heredity; cytoplasmic inheritance. 3 lec.

428 Human Genetics (4)

Prereq: 325. (winter; alternate yrs) *J. McQuate*. Genetics of man including normal and abnormal chromosomology; human biochemical genetics; genes in individuals, kindreds, populations, and evolution. 4 lec.

429 Marine Biology (4)

Prereq: 151 and perm. (spring; alternate yrs) *W. Hummon*. Biological processes in marine and estuarine habitats, and adaptations for life in sea; emphasis on environmental variables affecting distribution, abundance, and dynamics of marine organisms. Includes 10-dy field trip to tropical marine environment during spring break; estimated cost \$200 per student; limited to 12 students with preference given to those having taken 430 or currently enrolled in 430. 2 lec, field trip.

430 Invertebrate Zoology (6)

Prereq: 20 hrs in major courses, perm. (spring; alternate yrs) *W. Hummon*. Structure, function, systematic, and ecological relationships among full range of phyla. 3 lec, 6 lab. 5-dy field trip to temperate marine climate.

431 Limnology (4)

Prereq: 475, 476 or Bot 425 and Chem 143, perm. (spring; alternate yrs) *W. Hummon*. Physical, chemical, and biological processes in freshwater habitats; distribution, abundance, and dynamics of populations; structure, organization, and productivity of communities. 4 lec.

432 Field Hydrobiology (6)

Prereq: 431 or with 431 or perm. (spring; alternate yrs) *W. Hummon*. Methods and analysis of field collection data from standing and running water ecosystems, with emphasis on community structure and function under natural and polluted water conditions; special reference to acid mine pollution. 6 lab.

433 General Protozoology (6)

Prereq: 15 hrs in biological sciences. (fall; alternate yrs) *W. Peterson*. Structure, life histories, physiology, and relationships of representatives from all major groups of protozoa. 3 lec, 5 lab.

435 General Entomology (6)

Prereq: 151. (fall) *W. Romoser*. Overview of morphology, physiology, systematics, and general biology of insects. 3 lec, 6 lab.

437 Medical Entomology (4)

Prereq: 151. (winter) *W. Romoser*. Relationship of insects and related arthropods to human disease. 3 lec, 2 lab.

438 Topics in Insect Physiology (3)

Prereq: perm. (upon demand) *W. Romoser*. Seminar approach to current topics in insect physiology. 3 lec.

439 Field Entomology (5)

Prereq: 151, 435, or perm. (spring) *W. Romoser*. Systematics, evolution, ecology, and behavior of insects with emphasis on field collection and identification. 2 lec, 6 lab.

441 Parasitology (6)

Prereq: 151. (spring) *O. Heck*. Etiology of human parasites, their transmission, diagnosis, and prevention. 3 lec, 6 lab.

442 Helminthology (6)

Prereq: 151. (fall; alternate yrs) *O. Heck*. Biology of parasitic worms with emphasis on physiology, classification, life histories, and host response. 3 lec, 6 lab.

445 Physiology of Exercise (4)

Prereq: 345. (fall) *F. Hagerman*. Fundamental concepts describing reaction of organ systems to exercise/muscle metabolism and work evaluation; special reference to physical fitness, sport conditioning, and environmental adaptations to exercise. 4 lec. (Same as HPER 414/514.)

446 Physiology of Exercise Laboratory (3)

Prereq: 345, or perm; required for those enrolled in 445/545. (fall) *F. Hagerman*. Laboratory experiences designed to complement 445/545. 6 lab. (Same as HPER 415/515.)

448 Cell Physiology (4)

Prereq: organic chemistry or perm. (winter) *J. Wilson*. Analysis of fundamental cellular activities with emphasis on membrane structure and function, bioelectric potentials, contractile mechanisms. Also includes mitochondrial and chloroplast structure and function, bioluminescence, chromatophore activity, cell growth and development, and evolution of eucaryotic and procaryotic cells. 4 lec.

449 Cell Physiology Laboratory (4)

Prereq: 448 or 463 or with 448 or 463. (spring) Laboratory experiments designed to illustrate experimental bases of principles of cell chemistry and physiology. 6 lab.

450 Principles of Endocrinology (4)

Prereq: 460 or 448 recommended. (fall) *P. Jones*. Endocrine control of mammalian homeostasis and metabolism. 4 lec.

451 Endocrinology Laboratory (4)

Prereq: 450. (spring) *P. Jones*. Experimental techniques pertinent to study of endocrine glands including surgical ablation of one or more glands, using rats. 6 lab.

452 Advanced Endocrinology (3-4)

Prereq: 450, perm. (winter) Discussion of current research in mammalian endocrinology. Emphasis on reproduction controls and mechanisms. 3 lec.

460 Animal Physiology (4)

Prereq: 448 or perm. (spring) *J. Wilson*. Principles of animal physiology with emphasis on comparative, regulatory, and adaptive aspects of neuromuscular and neuroendocrine regulation, circulation, excretion and osmotic and temperature regulatory mechanisms. 4 lec.

461 Animal Physiology Laboratory (4)

Prereq: 460 or with 460, perm. (spring) Laboratory exercises designed to illustrate experimental basis of principles covered in 460. 6 and arranged lab.

463 Cell Chemistry (4)

Prereq: organic chemistry. (fall, spring) *J. Wilson, J. McQuate*. Chemistry of carbohydrates, lipids, proteins, and nucleic acids. Principles of enzyme activity and kinetics; metabolic pathways. 4 lec.

464 Cell Chemistry Laboratory (3)

Prereq: with or following 463 or 448. (winter) *J. Gault, J. Wilson*. Basic procedures in qualitative and quantitative analysis of biological compounds. 3 lab.

471 Ornithology (3)

Prereq: 151. (winter) *H. Seibert*. Bird biology, including general anatomy and physiology, migration, classification, life histories.

472 Herpetology (5)

Prereq: 20 hrs zoology. (spring) *H. Seibert*. Survey of biology of amphibians and reptiles, with lab on identification of local forms and field work on natural history of seasonally active species. 3 lec, 4 lab.

473 Ethology (6)

Prereq: 151. (fall, alt yrs) *J. Rovner*. Analysis of exogenous and endogenous factors which regulate behavior of invertebrates and vertebrates. 4 lec, 4 lab.

474 Mammalogy (6)

Prereq: 151. (fall) *G. Svendsen*. Mammals; their origin, evolution and adaptations, geographical distribution, ecology, and systematics. Emphasis on local fauna. 4 lec, 4 lab.

475 Animal Ecology (3)

Prereq: 151, not open to fr or soph. (winter) *H. Seibert*. Relation of animals to their habitat, to each other, and to man. General principles of terrestrial and aquatic communities, ecosystems, and man's involvement. 3 lec.

476 Ecology Laboratory (2)

Prereq: 151, not open to fr or soph. (fall) *W. Hummon*. Field course for animal ecology, consisting of visits to and studies of various local terrestrial and aquatic communities. 4 lab.

477 Population Biology (4)

Prereq: 325 and Math 163A or equivalent. (fall) *W. Hummon*. Quantitative aspects of genetics and ecology of both plant and animal populations, with emphasis on conceptual framework and its application to natural populations. 4 lec.

478 Population Biology Laboratory (3)

Prereq: 477 or with 477, perm. (upon demand) *W. Hummon*. Field and laboratory exercises designed to illustrate and supplement concepts treated in 477. 6 lab.

479 Evolution (4)

Prereq: 325. (winter) *G. Svendsen*. Current concepts of evolutionary processes; sources of variability, adaptation, speciation, coevolution, phylogeny, and ascendancy of man. 4 lec.

480 Biological Research Methods (2-4)

Prereq: perm.

480A Microscopy and Photomicrography (3)

Prereq: perm. (fall) *W. Peterson*. Principles, techniques, and applications of light microscopy including darkfield, phase-contrast, polarizing, fluorescence, and interference-contrast methods. Introduction to techniques of recording microscopic images.

482 Topics in Zoology (1-6, max 8)

Prereq: 20 hrs of zoology including 151; 2.5 gpa in major courses, perm. Individual or small-group study of specialized topics in zoology under supervision of instructor.

485 Undergraduate Research (1-3, max 12)

Prereq: 20 hrs and 2.5 gpa in zoology, perm from specific professor. Independent research under supervision of staff member.

H485 Undergraduate Research (1-4, max 12)

Prereq: 3.0 gpa in sciences, perm from specific professor. Individualized and directed research. Students select topics or are directed into possible research areas.

H495 Undergraduate Research (Thesis) (3-9, max 15)

Prereq: H485, 3.0 gpa in sciences, sr rank. Independent departmental honors research under supervision of staff member. Student should enroll qtr he or she expects to complete thesis.



Faculty



Departmental Faculty

The following listings were verified by the dean's office in each college as of May, 1979. The regional campus faculties are listed after the main campus faculties.

ACCOUNTING AND QUANTITATIVE METHODS

Prof: Warren Reininga (chairman), M.C.S., *Indiana U.*; William Voss, Ph.D., *U. of Chicago*.

Assoc. Prof: Thomas Bolland, Ph.D., *U. of Chicago*; Paul Dunlap, Ph.D., *American U.*; Abdul Hammond, Ph.D., *Case Western Reserve U.*; Clarence Stephenson, M.B.A., *George Washington U.*

Asst. Prof: Ted Compton, M.B.A., *Xavier U.*; James Cox, Ph.D., *U. of Pittsburgh*; Carol Anne Hilton, M.A., *Boston Univ.*; Joseph N. Hilton, M.S., *Texas Tech. Univ.*; Ellsworth Holden, M.A., *Harvard U.*; Donald Stuchell, M.A.S., *U. of Illinois*.

ADMINISTRATIVE SCIENCES

Prof: Victor Grieco, Ed.D., *U. of Pittsburgh*; Benjamin Prasad, Ph.D., *U. of Wisconsin at Madison*; Harlan Patterson, Ph.D., *Michigan State U.*; Scott Walton, Ph.D., *Iowa State U.*

Assoc. Prof: Azmi Mikhail, Ph.D., *Ohio State U.*; Kahandas Nandola, Ph.D., *U. of Pennsylvania*; Dwight Pugh, Ph.D., *Ohio U.*; David Richmond, Ph.D., *U. of Illinois*; Lawrence Zudak, Ph.D., *Purdue U.*

Asst. Prof: Timothy Hartman, Ph.D., *Ohio U.*; Manjulika Koshal, Ph.D., *U. of Patna*; Daniel Lindley, Ph.D., *U. of North Carolina*; John S. Wagle (chairman), Ph.D., *U. of Nebraska-Lincoln*.

AEROSPACE STUDIES

Prof: Robert E. Warner, Jr. (chairman), M.A., *Ohio State U.*

Asst. Prof: Ellis G. Buchanan, M.S., *Airforce Institute of Technology*; John L. Tullis, M.S., *Iowa State U.*

AFRO-AMERICAN STUDIES

Prof: Francine Childs, Ed.D., *East Texas U.*

Assoc. Prof: Robert Rhodes, M.A., *U. of Cincinnati*; James N. Upton, Ph.D., *Ohio State U.*; Vattel T. Rose (chairman), Ph.D., *U. of Minnesota*; Thomas Porter (dean), M.A.T., *Antioch College*.

Asst. Prof: Robert Peppers, M.F.A., *Ohio U.*

Instr: Cheryl Peppers, M.A., *Ohio U.*

ART

Prof: John Baldwin, M.F.A., *Istituto Allende*; David Hostetler, M.F.A., *Ohio U.*; William Kortlander, Ph.D., *U. of Iowa*; Henry Lin, M.F.A., *U. of Washington*; Dana Loomis, M.F.A., *Cornell U.*; Clifford McCarthy, M.S.,

U. of Wis. Madison; Donald Roberts, M.F.A., *Ohio U.*

Assoc. Prof: Robert Borchard, M.S., *U. of Wis.*; Aethelred Eldridge, M.S.D., *U. of Michigan*; Erik Forrest, A.T.D., *U. of Edinburgh* (director); Arnold Gassan, M.A., *U. of New Mexico*; Abner Jonas, M.F.A., *U. of Iowa*; David Klahn, M.F.A., *U. of Wis.-Madison*; Ronald Kroutel, M.F.A., *U. of Michigan*; Edward Mayer, M.F.A., *U. of Wis.*; Karen Nulf, M.A., *Michigan State U.*; Gary Pettigrew, M.F.A., *Ohio U.*; Gary Schwindler, Ph.D., *U. of Calif. Berkeley*; Daniel Williams, M.A., *U. of Oregon*; James Winebrenner, M.F.A., *Cranbrook Acad. of Art*.

Asst. Prof: Terrill Eiler, M.F.A., *Ohio U.*; Mary Man-
usos, M.F.A., *U. of Wis.*; Judith Perani, M.A., *Indiana U.*; Joseph Zeller, M.F.A., *Alfred U.*

Instr: Robert Bartlett (part-time), B.F.A., *Center for Creative Studies, Detroit*; Lois Gruberger, M.F.A., *Art Inst. of Chicago*; Barbara Jurgenson (part-time), M.F.A., *Cranbrook Academy of Art*; Berry Mathews (part-time), M.F.A., *Ohio State U.*; David Silverman, M.F.A., *Alfred U.*

AVIATION

Prof: Francis Fuller (chairman), B.S., *Ohio U.*

Asst. Prof: Joan Mace.

Instr: Lance Dale, B.A., *Ohio U.*

BOTANY

Dist. Prof: Norman Cohn, Ph.D., *Yale U.*

Prof: Mordecai Jaffe, Ph.D., *Cornell U.*; Laurence Larson, Ph.D., *Purdue U.*; Charles Miller (chairman), Ph.D., *U. of North Carolina, Chapel Hill*; Irwin Ungar, Ph.D., *U. of Kansas*; Warren Wistendahl, Ph.D., *Rutgers State U.*

Assoc. Prof: Arthur Bickle, Ph.D., *U. of Cincinnati*; James Braselton, Ph.D., *Iowa State U.*; James Cavender, Ph.D., *U. of Wisconsin*; James Graffius, Ph.D., *Michigan State U.*; Robert Lloyd, Ph.D., *U. of California at Berkeley*; John Mitchell, Ph.D., *Edinburgh U.*; Gar Rothwell, Ph.D., *U. of Alberta*; Ivan Smith, Ph.D., *U. of London*.

Adj. Asst. Prof: Gene Mapes, Ph.D., *U. of Iowa*.

CHEMISTRY

Dist. Prof: William Huntsman, Ph.D., *Northwestern U.*

Prof: Jesse Day, Ph.D., *Case Inst. of Tech.*; Peter Griffiths, Ph.D., *Oxford U.*; David Hendricker, Ph.D., *Iowa State U.*; Robert Ingham, Ph.D., *Iowa State U.*; Robert Kline, Ph.D., *U. of Wis. Madison*; Howard Latz,

Ph.D., *U. of Florida*; Paul Sullivan, Ph.D., *U. of Waterloo*; Robert Sympton (chairman), Ph.D., *U. of Illinois*; James Tong, Ph.D., *U. of Wis. Madison*; Thomas Wagner, Ph.D., *Northwestern U.*

Assoc. Prof: Clifford Houk, Ph.D., *Montana State U.*; Gary Pfeiffer, Ph.D., *Carnegie-Mellon U.*; Gene Westenberg, Ph.D., *U. of Calif. Berkeley*; Robert Winkler, Ph.D., *U. of Michigan*.

Asst. Prof: John Blazyk, Ph.D., *Brown U.*; Peter Johnson, Ph.D., *U. of Birmingham*.

CLASSICAL LANGUAGES

Prof: Harry Hultgren, Jr. (chairman), M.A., *U. of Kentucky*; Paul Murphy, Ph.D., *Harvard U.*

COMPARATIVE ARTS

Prof: James Conover, Ph.D., *Northwestern U.*; Robert Wortman (chairman), Ph.D., *Florida State U.*

Assoc. Prof: Michael Harper, Ph.D., *U. of NC Chapel Hill*.

Asst. Prof: Jessica Timmis, Ph.D., *Ohio U.*

COMPUTER SCIENCE

Prof: Donald O. Norris (acting chairman), Ph.D., *Ohio State U.*; Yin-Min Wei, Ph.D., *U. of Iowa*.

Assoc. Prof: Klaus Eldridge, Ph.D., *U. of Colorado*.

Asst. Prof: Larry Irwin, M.S., *Ohio U.*

DANCE

Prof: Gladys Bailin, B.A., *CUNY Hunter College*; Shirley Wimmer (director), M.A., *New York U.*

Assoc. Prof: Patricia Welling, B.S., *Wayne State U.*

Asst. Prof: Margaret Tcheng, M.F.A., *U. of Utah*.

Instr: Eileen Cohan, B.M., *U. of Cincinnati*.

ECONOMIC EDUCATION

Prof: William Rader, Ph.D., *Purdue U.*; Roman Warmke (chairman), Ph.D., *U. of Minn.*

ECONOMICS

Dist. Prof: Lowell Gallaway, Ph.D., *Ohio State U.*; Lee Soltow, Ph.D., *U. of Wisconsin at Madison*.

Prof: Douglas Adie, Ph.D., *U. of Chicago*; Edwin Charle (chairman), Ph.D., *Indiana U.*; Burton DeVeau, Ph.D., *U. of Minnesota*; Ismail Ghazalah, Ph.D., *U. of Calif.-Berkeley*; David Klingaman, Ph.D., *U. of Virginia*; Rajindar Koshal, Ph.D., *U. of Rochester*; David Levinson, Ph.D., *U. of Wisconsin at Madison*; John Peterson, Ph.D., *U. of Chicago*; Fred Picard, Ph.D., *Syracuse U.*; Vishwa Shukla, Ph.D., *U. of Wisconsin at Madison*; Richard Vedder, Ph.D., *U. of Illinois*.

Assoc. Prof: Neil Bucklew, Ph.D., *U. of Wisconsin at Madison*; Paul Deuster, Ph.D., *U. of Wisconsin at Madison*; Dana Hewins, Ph.D., *U. of Illinois*.

Charles O'Bleness Prof. Emeritus: Meno Lovenstein, Ph.D., *Johns Hopkins U.* (part-time).

Trustees Prof. Emeritus: Harry Crewson, Ph.D., *Ohio State U.* (part-time).

EDUCATION — APPLIED BEHAVIORAL SCIENCES AND EDUCATIONAL LEADERSHIP

Prof: Robert Barcikowski, Ph.D., *SUNY State U. Buffalo*; Gilbert Crowell, Ed.D., *U. Missouri*; Donald Knox, Ed.D., *Case Western U.*; Paul Roaden (director), Ed.D., *U. of Tenn.*; Albert Shuster, Ed.D., *U. of Virginia*; Joseph Sligo, Ph.D., *U. of Iowa*; Thomas Sweeney, Ph.D., *Ohio State U.*; John Witmer, Ph.D., *Florida State U.*

Assoc. Prof: Fred Dressel, Ed.D., *Indiana U.*; Max

Evans, Ph.D., *Ohio State U.*; James Grubb, Ph.D., *Ohio U.*; Luther Haseley, Ed.D., *U. of Toledo*; Sally Navin, Ph.D., *Ohio State U.*

Asst. Prof: James Hartman, Ph.D., *Kent State U.*; Russell Thomas, Ph.D., *Purdue*.

EDUCATION — CURRICULUM AND INSTRUCTION

Morton Prof. of Math Education: Leonard Pikaart, Ed.D., *U. of Virginia*.

Prof: Jason Brunk, Jr., Ed.D., *U. of Maryland*; Charles D'Augustine, Ph.D., *Florida State U.*; Monroe Johnson, Ed.D., *U. of Tennessee*; Albert Leep, Ed.D., *Ball State U.*; John A. Masla, Ed.D., *Indiana U.*; Lester Mills, Ed.D., *Columbia U.*; Ragy Mitias (director), Ph.D., *Ohio State U.*; Milton Ploghoft, Ed.D., *U. of Nebraska*; Paul Ploutz, Ed.D., *U. of Northern Colorado*; Sadek Samaan, Ph.D., *Columbia U.*; Ray Skinner, Jr., Ph.D., *Kent State U.*; Gilbert Stephenson, Ed.D., *Columbia U.*; James Thompson, Ph.D., *Ohio State U.*

Assoc. Prof: Arthur Clubok, Ph.D., *U. of Michigan*; Elsie Helsel, Ph.D., *U. of Pittsburgh*; Larry Jageman, Ed.D., *U. of Northern Colorado*; Reba Pinney, Ph.D., *Ohio U.*; Sally Schaaf, Ph.D., *Ohio U.*; Charles Smith, Jr., Ed.D., *Wayne State U.*; Edward Stevens, Jr., Ed.D., *U. of Rochester*; Seldon Strother, Ph.D., *Kent State U.*; Barbara van der Veur, Ed.D., *U. of Illinois*.

Asst. Prof: Amy Allen, M.A., *Columbia U.*; Sondra Rebottini, Ed.D., *West Virginia U.*

Instr: Barbara Hoffmann, M.S.Ed., *U. of Arizona*; Sallie Roberts, M.A., *Ohio U.*

EDUCATION — EDUCATIONAL MEDIA CENTER

Seldon Strother (director), Ph.D., *Kent State U.*

EDUCATION — PROFESSIONAL LABORATORY EXPERIENCES

Prof: John Evans (director), Ph.D., *Ohio State U.*

Assoc. Prof: Margaret Hoy, M.Ed., *Ohio U.*

Asst. Prof: Albert Ginther, M.A., *Ball State U.*; Florence Manring, M.S., *Ohio U.*

Instr: William Bartels, M.Ed., *Ohio U.*; Howard Delamatre, M.Ed., *Bowling Green*; Joan Fucci, M.S., *U. of Pittsburgh* (part-time); Herman Humphrey, A.M., *Columbia U.* (part-time); Jane Meyers, M.Ed., *Ohio U.*

ENGINEERING, CHEMICAL

Prof: William Baasel, Ph.D., *Cornell U.*; Calvin Baloun, Ph.D., *U. of Cincinnati*; John Collier, Ph.D., *Case Western Reserve U.*; Nicholas Dinos (chairman), Ph.D., *Lehigh U.*; Harold Kendall, Ph.D., *Case Western Reserve U.*; Richard Mayer, Ph.D., *U. of Michigan*; Robert Savage, Ph.D., *Case Institute of Technology*.

ENGINEERING, CIVIL

Prof: Harry Kaneshige, Ph.D., *U. of Wisconsin-Madison*; Reuben Olson (chairman), Ph.D., *U. of Minn.*; Carl Shermer, Ph.D., *U. of Michigan*.

Assoc. Prof: Glenn Hazen, Ph.D., *Penn State U.*; Edward Russ, M.S.C.E., *Clarkson College of Technology*.

Asst. Prof: William Murphy, M.S., *Purdue U.*

ENGINEERING, ELECTRICAL

Prof: Hollis Chen, Ph.D., *Syracuse U.*; Wai-Kai Chen, Ph.D., *U. of Illinois*; Joseph Essman, Ph.D., *Purdue U.*; James Gillert, Ph.D., *Ohio State U.*; Harry Holfce, M.S.E.E., *Ohio U.*; Harold Klock, Ph.D., *Northwestern U.*; Richard McFarland, Ph.D., *Ohio State U.*; Satyanrayana Raju (chairman), Ph.D., *Polytechnic Institute of*

Brooklyn, New York; Gustavus Smith, M.S.E.E., Princeton U.

Asst. Prof: Raymond Luebbers, Ph.D., *Ohio State U.*

Instr: Ralph Burhans (part-time), A.B., *Oberlin College*; John Dickson (part-time), M.S.E.E., *Youngstown State U.*; Victor Hanna, M.S., *Youngstown U.*; Brian Manhire, M.S., *Ohio State U.*

ENGINEERING, INDUSTRIAL AND SYSTEMS

Prof: Charles Overby, Ph.D., *U. of Wisconsin-Madison*; Donald Scheck, Ph.D., *Purdue U.*; Ralph Smith, M.S.M.E., *U. of Wisconsin-Madison*; Robert Williams (chairman), Ph.D., *Ohio State U.*; Helmut Zwahlen, Ph.D., *Ohio State U.*

ENGINEERING, MECHANICAL

Prof: Otto Adams, Ph.D., *Lehigh U.*; Fan Chen, Ph.D., *Purdue U.*; Lewis Hicks, M.S., *Johns Hopkins U.*; Roy Lawrence (chairman), Ph.D., *Southern Methodist U.*

Assoc. Prof: William Beale, M.S., *Calif. Inst. of Technology*.

ENGLISH

Dist. Prof: John Matthews, M.A., *Ohio State U.*; Edward Stone, Ph.D., *Duke U.*; Hollis Summers, Ph.D., *U. of Iowa*.

Trustees Prof: Taylor Culbert, Ph.D., *U. of Michigan*.

Prof: James Davis (chairman), Ph.D., *Florida State U.*; Robert DeMott, Ph.D., *Kent State U.*; Wayne Dodd, Ph.D., *U. of Oklahoma*; Frank Fieler, Ph.D., *U. of Florida*; Raymond Fitch, Ph.D., *U. of Pennsylvania*; Peter Heidtmann, Ph.D., *U. of Wis. at Madison*; John Hollow, Ph.D., *U. of Rochester*; John Jones, Ph.D., *U. of Florida*; Daniel Keyes, M.A., *CUNY Brooklyn College*; Earl Knies, Ph.D., *U. of Illinois*; Helen MacKenzie, Ph.D., *U. of Edinburgh*; Dean McWilliams, Ph.D., *U. of Oregon*; Lester Marks, Ph.D., *Syracuse U.*; Edward Mitchell, Ph.D., *U. of Connecticut*; Vance Ramsey, Ph.D., *U. of Oklahoma*; Robert Roe, A.B., *Columbia U.*; James Schmidt, M.A., *U. of the Americas*; Duane Schneider, Ph.D., *U. of Colorado*; Harold Swardson, Ph.D., *U. of Minn.*; Walter Tevis, M.F.A., *U. of Iowa*; Calvin Thayer, Ph.D., *U. of Calif.-Berkeley*; James Thompson, Ph.D., *U. of Cincinnati*; Gerald Udell, Ph.D., *U. of Chicago*; Arvin Wells, Ph.D., *U. of Michigan*; Edgar Whan, Ph.D., *U. of Michigan*.

Assoc. Prof: Laurence Bartlett, Ph.D., *Michigan State U.*; David Bergdahl, Ph.D., *Syracuse U.*; Horace Coleman, M.F.A., *Bowling Green State U.*; Frank Cronin, Ph.D., *U. of Pittsburgh*; Samuel Crowl, Ph.D., *Indiana U.*; Roy Flannagan, Ph.D., *U. of Virginia*; David Heaton, Ph.D., *U. of Michigan*; Reid Huntley, Ph.D., *U. of NC Chapel Hill*; Ernest Johansson, Ph.D., *U. of NC Chapel Hill*; William Kuhre, Ph.D., *Penn State U.*; Julia Lin, Ph.D., *U. of Washington*; Ben Park, Ph.D., *U. of Oklahoma*; Cosmo Pieterse, M.A., *U. of Cape Town*; Edward Quattrocki, Ph.D., *Loyola U.*; Barry Roth, Ph.D., *Stanford U.*

Asst. Prof: Peter Kousaleos, Ph.D., *Ohio U.*; Arthur Woolley, Ph.D., *U. of Wis. Madison*.

FILM

Asst. Prof: Peter Lehman, Ph.D., *U. of Wisconsin-Madison*; David Prince, M.F.A., *Ohio U.*; George Semsel, M.A., *New York U.*

GEOGRAPHY

Prof: Frank Bernard (chairman), Ph.D., *U. of Wisconsin-Madison*; Bobbie Walter, Ph.D., *U. of Wisconsin-Madison*; Hubert Wilhelm, Ph.D., *La. St. U.*

Assoc. Prof: James Cobban, Ph.D., *U. of Calif.-Berkeley*; Nancy Bain, Ph.D., *U. of Minnesota*; Lynden Williams, Ph.D., *U. of Kansas*.

Asst. Prof: Hubertus Bloemer, Ph.D., *Union Graduate School*; Ronald Isaac, Ph.D., *Southern Illinois U.*

GEOLOGY

Prof: Moid Ahmad, Ph.D., *U. London*; Stanley Fisher, Ph.D., *Cornell U.*

Assoc. Prof: Willard Phelps, M.A., *Ohio State U.*; Geoffrey Smith (chairman), Ph.D., *Ohio State U.*; Thomas Worsley, Ph.D., *U. of Illinois*.

Asst. Prof: Ronald Kreisa, Ph.D., *Virginia Polytechnic Inst.*

Lect: Gene Heien, M.A., *Indiana U.*

Emeritus Prof: Myron Sturgeon, Ph.D., *Ohio State U.*

HEALTH, PHYSICAL EDUCATION, AND RECREATION

Prof: James A. Lavery (director), P.Ed., *Indiana U.*

Assoc. Prof: Cliff Heffelfinger, M.A., *Ohio State U.*; Charles Higgins, Ed.D., *U. of N.C. Greensboro*; John McComb, M.S.Ed., *Boston U.*; Freda Phillips, D.P.E., *Springfield College*; Bobbie Schmidt, Ph.D., *U. of Illinois*.

Asst. Prof: John Bonaguro, Ph.D., *U. of Oregon*; Catherine Brown, M.S., *Ohio U.*; Tiff Cook, Ph.D., *Waldren U.*; Ronald Dingle, M.S., *U. of Mass.*; David Jacoby, Ph.D., *Ohio U.*; Joyce King, M.S., *Ohio U.*; Sandra McMillan, Ph.D., *Ohio State U.*; Lynn Simon, P.Ed., *Indiana U.*; Ronald Whitaker, M.Ed., *Ohio U.*; Owen Wilkinson, Ph.D., *Waldren U.*; Richard Woolison, M.Ed., *Ohio U.*

Instr: Sally Childs, M.A., *Northern Michigan U.*; James Gilmore, M.Ed., *Ohio U.*; Joan Kappes, M.Ed., *Ohio U.*; William Sells, M.Ed., *Ohio U.*; Karen Stadeck, M.S., *State U. of N.Y. College at Cortland*; Patrice Stavile, M.S., *U. of Mass.*

HEARING AND SPEECH SCIENCES

Prof: Donald Fucci (director), Ph.D., *Purdue U.*

Assoc. Prof: Dean Christopher, Ph.D., *Ohio State U.*; Richard Dean, Ph.D., *Stanford U.*; Joann Fokes, Ph.D., *Purdue U.*; Norman Garber, Ph.D., *U. of Missouri*; Ronald Isele, M.A., *Kent State U.*

Asst. Prof: Zinny Bond, Ph.D., *Ohio State U.*; Emily Buckberry, M.A., *Ohio U.*; Helen Conover, M.A., *Ohio U.*; Paul Miller, M.A., *Marshall U.*; Stephen Oshrin, Ph.D., *Ohio U.*; William Seaton, Ph.D., *U. of Illinois*.

Instr: Betty Malinak (part-time) M.A., *Case Western Reserve*.

HISTORY

Dist. Prof: Carl Gustavson, Ph.D., *Cornell U.*

Prof: Charles Alexander, Ph.D., *U. of Texas*; Alan Booth (chairman), Ph.D., *Boston U.*; Robert Daniel, Ph.D., *U. of Wisconsin-Madison*; John Gaddis, Ph.D., *U. of Texas*; Alonzo Hamby, Ph.D., *U. Missouri*; William Kaldis, Ph.D., *U. of Wisconsin-Madison*; George Lobdell, Jr., Ph.D., *U. of Illinois*; Suzanne Miers, Ph.D., *U. of London*; Bruce Steiner, Ph.D., *U. of Virginia*.

Assoc. Prof: Douglas Baxter, Ph.D., *U. of Minn.*; Philip Bebb, Ph.D., *Ohio State U.*; James Chastain, Ph.D., *U. of Oklahoma*; Gifford Doxsee, Ph.D., *Harvard U.*; Marvin Fletcher, Ph.D., *U. of Wisconsin-Milwaukee*; Richard Harvey, Ph.D., *U. Missouri*; Donald Jordan, Ph.D., *U. of Wisconsin*; Lyle McGeoch, Ph.D., *U. of Pennsylvania*; Roy Rauschenberg, Ph.D., *U. of Illinois*; Compton Reeves, Ph.D., *Emory U.*; Donald Richter, Ph.D., *U. of Maryland*; Robert Whealey, Ph.D., *U. of Michigan*.

Asst. Prof: Phyllis Field, Ph.D., *Cornell U.*; William

Frederick, Ph.D., *U. of Hawaii*; Susan Ramirez-Horton, Ph.D., *U. of Wisconsin-Madison*.

HOME ECONOMICS

Assoc. Prof: Mary Doxsee, M.A., *Columbia U.*; Julia Nehls, M.S., *Ohio U.*; Shirley Slater, Ph.D., *Ohio State U.*; Ernest Stricklin, Ph.D., *Boston U.*; Betty Sullivan, Ph.D., *Ohio State U.*

Asst. Prof: Mary Goldsberry, M.S., *Ohio U.*; Erma Langford, M.S., *U. of Tenn.*; Alice Lockard, M.S., *Purdue U.* (part-time); Judith Matthews, M.S., *U. of Tenn.*; Sabra Mumford, Ph.D., *U. of Minnesota*; Richard Rainsford, M.Ed., *U. of Mass., Amherst*; Jean Harlan, Ph.D., *Ohio U.*

Instr: Janet Izard, M.S., *U. of Illinois, Urbana* (part-time); Carolyn Quattrochi, M.S., *Ohio U.* (part-time); June Varner, M.S., *Ohio U.*

INDUSTRIAL TECHNOLOGY

Prof: William Creighton, Jr., M.Ed., *U. of Cincinnati*; Menno DiLiberto (chairman), Ed.D., *U. of Illinois*; Robert Hawk, Ed.D., *Penn State U.*; Thomas Sarchet, M.S., *Bradley U.*; Howard Shull, Ed.D., *U. of Maryland*; Albert Squibb, D.Ed., *Penn State U.*

Assoc. Prof: Richard Nostrant, M.S.Ed., *SUNY College-Buffalo*.

Asst. Prof: John Adams, M.S., *Newark State College*; William Reeves, M.A., *Western Kentucky U.*; Arlen Saunders, M.A., *Morehead State U.*

INTERPERSONAL COMMUNICATIONS

Prof: Paul Boase (director), Ph.D., *U. of Wisconsin*; Robert Goyer, Ph.D., *Ohio State U.*; John Timmis, III, Ph.D., *Penn State U.*

Assoc. Prof: Charles Carlson, M.Ed., *Kent State U.*; Ted Foster, Ph.D., *Ohio U.*; Richard Whitman, Ph.D., *U. of Nebraska*.

Asst. Prof: David Descutner, Ph.D., *U. of Illinois*; Sue DeWine, Ph.D., *Indiana U.*; Maung Gyi, Ph.D., *Ohio U.*; Anita James, Ph.D., *U. of So. California*; Ray Wagner, Ph.D., *Ohio U.*

JOURNALISM

Prof: James Alsbrook, Ph.D., *U. of Iowa*; Russell Baird, M.A., *U. of Wisconsin*; Robert Baker (director), B.A., *U. of Maryland*; J. W. Click, Ph.D., *Ohio State U.*; Hugh Culbertson, Ph.D., *Michigan State U.*; Norman Dohn, Ph.D., *Ohio State U.*; Ralph Izard, Ph.D., *U. of Illinois*; Ralph Kliesch, Ph.D., *U. of Minnesota*; Charles L. Scott, M.S.J., *Ohio U.*; Guido Stempel, III, Ph.D., *U. of Wisconsin*; Arthur Turnbull, M.S., *Ohio U.*; John Wilhelm, B.A., *U. of Minnesota*.

Assoc. Prof: Roger Bennett, Ph.D., *U. of Texas*; Dru Evarts, Ph.D., *Ohio U.*; Donald Lambert, M.A., *Penn State U.*; Thomas Peters, M.B.A., *Ohio U.*; Byron Scott, M.A., *U. of Miami*.

Instr: Thomas Dunlap (part-time), M.S., *Ohio U.*

LINGUISTICS

Assoc. Prof: James Coady, Ph.D., *Indiana U.*; Gilbert Schneider, Ph.D., *Hartford Sem. Found*; Marmo Sermarmo (chairman), Ph.D., *U. of California, Los Angeles*.

Asst. Prof: Elliot Judd, Ph.D., *New York U.*; Richard McGinn, Ph.D., *U. of Hawaii*

MANAGEMENT

Prof: James Lee, D.B.A., *Harvard U.*; Arthur Marinelli, J.D., *Ohio State U.*; Lucian Spataro, Ph.D., *U. of Illinois*; John Stinson (chairman), Ph.D., *Ohio State U.*

Assoc. Prof: William Day, D.B.A., *Harvard U.*; Thomas Johnson, Ph.D., *U. of Illinois*; Lawrence Miller,

Ph.D., *Ohio U.*; Lane Tracy, D.B.A., *U. of Washington*; Harvey Tschirgi, Ph.D., *U. of California Los Angeles*.

Asst. Prof: Jonathan Reiff, J.D., *Wake Forest U.*; Alice Rutkowskie, M.S., *Indiana U.*

MATHEMATICS

Prof: Robert Blair, Ph.D., *U. of Iowa*; Robert Butner, Ph.D., *U. of Iowa*; Carl Denbow, Ph.D., *U. of Chicago*; Victor Goedicke, Ph.D., *U. of Michigan*; Robert Helsel, Ph.D., *Ohio State U.*; Surender Jain, Ph.D., *U. of Delhi*; Samuel Jasper, Ph.D., *U. of Kentucky*; Donald Norris (chairman), Ph.D., *Ohio State U.*; Paul Reichelderfer, Ph.D., *Ohio State U.*; Ray Spring, Ph.D., *U. of Illinois*; Howard Wicke, Ph.D., *U. of Iowa*; John Worrell, Jr., Ph.D., *U. of Texas*.

Assoc. Prof: Robert Atalla, Ph.D., *U. of Rochester*; Klaus Eldridge, Ph.D., *U. of Colorado*; John Gillam, Ph.D., *Michigan State U.*; Ellery Golos, M.A., *U. of Michigan*; David Keck, Ph.D., *Ohio State U.*; Paul Malcom, Ph.D., *Ohio State U.*; Cyrus Mehr, Ph.D., *Purdue U.*; M.S.K. Sastry, Ph.D., *U. of Rochester*; Hari Shankar, M.A., *U. of Cincinnati*; James Shirey, Ph.D., *Purdue U.*; Larry Snyder, Ph.D., *Purdue U.*; Shih-Liang Wen, Ph.D., *Purdue U.*

Asst. Prof: Robert Vancko, Ph.D., *Penn State U.*

MILITARY SCIENCE

Prof: George E. Limbaugh, M.A., *U. of Maryland, College Park*.

Asst. Prof: Robert L. Adams, M.B.A., *Ohio U.*; James W. Beisner, B.A., *Ripon College*; William L. Jennewine, Jr., B.Ed., *U. of Miami, Coral Gables*; Stephen T. Smith, B.S., *Ohio State U.*

MODERN LANGUAGES

Prof: Wallace Cameron, Ph.D., *U. of Iowa*; Philip Flum, Ph.D., *U. of NC Chapel Hill*; Lawrence LaJohn, Ph.D., *Indiana U.*; Ursula Lawson, Ph.D., *Vanderbilt U.*; Manuel Serna-Maytorena, Ph.D., *U. Missouri*; Barry Thomas (chairman), Ph.D., *U. of Calif, Berkeley*; William Wrage, Ph.D., *U. of Wis. Madison*.

Assoc. Prof: Carl Carrier, Ph.D., *Indiana U.*; Richard Danner, Ph.D., *Indiana U.*; Thomas Franz, Ph.D., *U. of Kansas*; Abelardo Moncayo-Andrade, Ph.D., *U. of Maryland*; Marie-Claire Wrage, Ph.D., *U. of Wis. Madison*.

Asst. Prof: Noel Barstad, Ph.D., *U. of Minn.*; Grafton Conliffe, Ph.D., *Northwestern U.*; Ruth Nybakken, Ph.D., *Columbia U.*; Lois Vines, Ph.D., *Georgetown U.*; Maureen Weissenrieder, Ph.D., *Penn State U.*

Instr: Joseph Burns, M.A., *U. of Tenn.*

Lect: Jacqueline Bolen, M.A., *Ohio U.*; Douglas Hinkle, M.A., *U. of Virginia*; Joseph Ipacs, M.A., *State U. of Szeged*; Bartolomeo Martello, M.A., *Michigan State U.*; Charles Richardson, M.A., *Ohio U.*; Henry Silver, M.A., *U. of Calif. Berkeley*.

MUSIC

Prof: Howard Beebe, M.A., *Juilliard School of Music*; William Brophy, M.MUS., *U. of Illinois*; Paul Conkling, M.M., *Northwestern U.*; Reginald Fink, Ph.D., *U. of Oklahoma*; Sherwood Hall, Jr., M.MUS., *Northwestern U.*; Eugene Jennings, D.M., *Florida State U.*; David Lewis, Ph.D., *West Virginia U.*; Robert Smith, M.M., *Cincinnati Conservatory of Music*; Clyde Thompson (director), Ph.D., *U. of Michigan*; Richard Wetzel, Ph.D., *U. of Pittsburgh*

Assoc. Prof: Ernest Bastin, M.M., *U. of Illinois*; Gail Berenson, M.M., *Northwestern U.*; Lucile Jennings, M.A., *Ohio U.*; Guy Remonko, M.M., *West Virginia U.*; Harold Robinson, D.M.A., *U. of Michigan*; James Scholten, Ed.D., *U. of Michigan*; Ronald Socciarelli, M.M., *U. of Michigan*; Margaret Stephenson, M.A., *Columbia U.*

James Stewart, M.M., *Indiana U.*; Margene Stewart, M.A., *Ohio U.*; Richard Syracuse, M.S., *Juilliard School of Music*; Eugene Wickstrom, S.M.M., *Union Theolo. Sem.*; Ira Zook, Jr., D.M.A., *U. of Michigan*.

Asst. Prof: Kenneth Andrews, B.M., *Indiana U.*; Nancy Beebe, M.S., *Kent State U.*; Pauline Gagliano, M.S., *U. of Illinois*; Michael Kellogg, M.M., *Loyola U.*; Leslie Kleen, Ph.D., *SUNY State U. Buffalo*; Howard Niblock, M.M., *Michigan State U.*; Claud Powell, Ph.D., *U. of Iowa*; Allyn Reilly, M.M., *Northwestern U.*

Instr: Lowell Weiner (visiting), M.M., *Indiana U.*

NURSING

Assoc. Prof: Alma Cremer, Ph.D., *Ohio State U.*; Audrey Koertvelyessy, M.S., *SUNY College Buffalo*; Margaret Wyatt (director), Ph.D., *Ohio U.*

Asst. Prof: Jeanne Barton, M.S.N., *Medical College of Georgia*; Mary DeNoble (part-time), M.S.N., *Ohio State U.*; Sharon Elliott (part-time), M.S., *U. of Cincinnati*; Emily Harman, M.Ed., *West Virginia U.*; Carol Ottinger, M.S.N., *Ohio State U.*; Alice Pasquale, M.S., *Ohio State U.*; Barbara Pfeiffer, M.P.H., *U. of Michigan*; Georgia Roebuck, M.S.N., *U. of Washington*; Shirley Sennauser, M.S.N., *Boston U.*; Paul Spear (part-time), M.S., *Ball State U.*

OHIO PROGRAM OF INTENSIVE ENGLISH

Assoc. Prof: Robert Dakin (director), Ph.D., *U. of Michigan*.

Instr: Fonda Fry, M.A., *Ohio U.*

Lect: Louis Holschuh, M.A., *Ohio U.*; Mary K. Jordan, M.A., *Ohio U.*; Charles Mickelson, M.A., *Ohio U.*; Sandra Nickel, M.A., *Ohio U.*; Cornelia Perdreau, M.A., *Ohio U.*; Lucille Perone, M.A., *Ohio U.*

OSTEOPATHIC MEDICINE

Department of Family Medicine

Prof: Frank Myers (dean), D.O., *College of Osteopathic Medicine and Surgery-Des Moines*; David Patriquin, D.O., *Philadelphia College of Osteopathic Medicine*; David Richards, D.O., *Kirkville College of Osteopathic Medicine*.

Assoc. Prof: Oscar Bailes, D.O., *Kansas City College of Osteopathic Medicine*; David Brown, D.O., *Kansas City College of Osteopathic Medicine*; Anthony Chila, D.O., *Kansas City College of Osteopathic Medicine*; E. Lee Foster, D.O., *Kirkville College of Osteopathic Medicine*; Andre Gibaldi (chairman), D.O., *Chicago College of Osteopathic Medicine*; Daniel Marazon, D.O., *Kirkville College of Osteopathic Medicine*; Angelo Settembrini, D.O., *College of Osteopathic Medicine and Surgery-Des Moines*; Anthony Tenoglia, D.O., *Kansas City College of Osteopathic Medicine*.

Asst. Prof: Charles Cannon, Jr., D.O., *Philadelphia College of Osteopathic Medicine*; Robert Clark, D.O., *Kirkville College of Osteopathic Medicine*; Marjorie Nelson, M.D., *Indiana U.*, M.P.H., *Yale U.*; Christopher Olson, D.O., *College of Osteopathic Medicine and Surgery-Des Moines*; Robert Stockmal, D.O., *Philadelphia College of Osteopathic Medicine*, Ph.D., *Jefferson Medical College*; Harold Thompson, III, D.O., *Chicago College of Osteopathic Medicine*.

Department of Osteopathic Medicine

Prof: Lawrence Anderle, D.O., *Kirkville College of Osteopathic Medicine*; Ronald Black, M.A., *U. of Michigan*; Fred Jenson, D.O., *Chicago College of Osteopathic Medicine*; John Knable (chairman), D.O., *College of Osteopathic Medicine and Surgery-Des Moines*; Charles Knouse, D.O., *Kansas City College of Osteopathic Medicine*.

Assoc. Prof: Constantine Makris, M.D., *U. Medical School-Athens, Greece*; John Molea, D.O., *College of Osteopathic Medicine and Surgery-Des Moines*; Robert Woodworth, D.O., *Chicago College of Osteopathic Medicine*.

Asst. Prof: Jack Roseberry, D.O., *Kirkville College of Osteopathic Medicine*.

Basic Science

Prof: Frederick Hagerman, Ph.D., *Ohio State U.*; John McQuate, Ph.D., *Indiana U.*; Wesley Peterson, Ph.D., *U. of Pennsylvania*; J. Langdon Taylor, Jr., Ph.D., *U. of Calif., Los Angeles*.

Assoc. Prof: Louise Edds, Ph.D., *Brown U.*; Grover Ericson, Ph.D., *Loyola U.*; Oscar Heck, Ph.D., *Washington State U.*; John Howell, Ph.D., *U. of Calif., Los Angeles*; Joseph Jollick, Ph.D., *West Virginia U.*; Michael Patterson, Ph.D., *U. of Iowa*; Richard Walker, Ph.D., *U. of California*.

Asst. Prof: William Blue, Ph.D., *Loyola U.*; Robert Daley, Ph.D., *Ohio State U.*; Gerhard Ehrenspeck, Ph.D., *Pennsylvania State U.*; Duane Foley, Ph.D., *U. of California*; Peter Johnson, Ph.D., *U. of Birmingham*; Donny Kirksey, Ph.D., *U. of Mississippi*; Kerry Ragg, Ph.D., *Ohio State U.*; Russell Savage, Ph.D., *Ohio State U.*

Instr: Janice Gault, M.S., *Ohio U.*

Adjunct Prof: James Lawrence, Ph.D., *Ohio State U.*; William Romoser, Ph.D., *Ohio State U.*

Adjunct Assoc. Prof: Thomas Wagner, Ph.D., *Northwestern U.*

Adjunct Asst. Prof: John Blazyk, Ph.D., *Brown U.*

Visiting Asst. Prof: Rebecca Riales, Ph.D., *Ohio State U.*

PHILOSOPHY

Dist. Prof. Emeritus: Troy Organ (part-time), Ph.D., *U. of Iowa*.

Prof: Gene Blocker, Ph.D., *U. of California-Berkeley*; Donald Borchert, Ph.D., *Princeton-Theology Sem.*; Richard Butrick, Ph.D., *Columbia U.*; Stanley Grean, Ph.D., *Columbia U.*; Charles Ping, Ph.D., *Duke U.*; Warren Rucht (chairman), Ph.D., *U. of Pennsylvania*; David Stewart, Ph.D., *Rice U.*; Robert Wieman, Ph.D., *U. of California-Berkeley*.

Assoc. Prof: Michael Corrado, Ph.D., *Brown U.*; Algis Mickunas, Ph.D., *Emory U.*; Robert Trevas, Ph.D., *U. of Maryland*; George Weckman, Ph.D., *U. of Chicago*.

Asst. Prof: James Perotti, Ph.D., *Duquesne U.*; Elizabeth Smith, Ph.D., *U. of Washington*.

PHYSICS

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